



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Kawneer Company, Inc.  
555 Guthridge Court  
Norcross, GA 30092

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "1630-SS-IR Dry Glazed" 8-<sup>13</sup>/<sub>16</sub>" Aluminum Curtain Wall System – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 1847, Series titled "8-<sup>13</sup>/<sub>16</sub>" Deep 1630-SS-IR Dry Glazed LMI Curtain Wall", sheets 01 through 21 of 21, dated 01/15/13, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P. E., bearing the Miami-Dade County Product Control Section Approval stamp with the Notice of Acceptance number and Approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon*  
7/26/13

NOA No. 13-0522.12  
Expiration Date: August 01, 2018  
Approval Date: August 01, 2013  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **1847**, Series titled "**8-<sup>13</sup>/<sub>16</sub>" Deep 1630-SS-IR Dry Glazed LMI Curtain Wall**", sheets 01 through 21 of 21, dated 01/15/13, prepared by W. W. Schafer Engineering & Consulting, P. A., signed and sealed by Warren W. Schafer, P. E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Dynamic Water Penetration Test, per AAMA 501.1  
5) Small Missile Impact Test per FBC, TAS 201-94 and ASTM E 1886-05/ E1996-09  
6) Large Missile Impact Test per FBC, TAS 201-94 and ASTM E 1886-05/ E1996-09  
7) Thermal Cycling Test per AAMA 501.5  
8) Cyclic Wind Pressure Loading per FBC, TAS 203-94 and ASTM E 1886-05/ E1996-09  
along with marked-up drawings and installation diagram of an Aluminum curtain wall system, prepared by Architectural Testing, Inc., Test Reports No.'s **ATI-C0438.01-450-18** and **ATI-C0438.02-450-18**, both dated 03/28/13, signed and sealed by Vinu J. Abraham, P. E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of a curtain wall system, prepared by Architectural Testing, Inc., Test Reports No.'s **ATI-C0439.03-550-18**, dated 04/11/13 and **ATI-C0439.09-550-18**, dated 04/15/13, both signed and sealed by Vinu J. Abraham, P. E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Large Missile Impact Test, Level "E", per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of a curtain wall system Impact Test, Level "E", prepared by Architectural Testing, Inc., Test Reports No.'s **ATI-C0439.05-550-18** dated 03/28/13 and **ATI-C2283.01-550-18**, dated 04/11/13, both signed and sealed by Vinu J. Abraham, P. E.



Jaime D. Gascon, P. E.  
Product Control Section Supervisor  
NOA No. 13-0522.12  
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**B. TESTS (CONTINUED)**

4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Large Missile Impact Test, Wind Zone "3", per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of a curtain wall system, Impact Test, Wind Zone "3", prepared by Architectural Testing, Inc., Test Report No. **ATI-C0439.06-550-18**, dated 04/11/13, signed and sealed by Vinu J. Abraham, P. E.

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, prepared by W. W. Schafer Engineering & Consulting, P. A., dated 12/18/12, signed and sealed by Warren W. Schafer, P. E.
2. **Glazing complies with ASTM E1300-04**

**D. QUALITY ASSURANCE**


1. Miami-Dade Department of Regulatory and Economic Resources (RER).

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Test Report No. **73703**, prepared by Excel Polymers, LLC, an A2LA accredited laboratory, dated 04/11/11, issued to Tremco, Inc. for TREMCO Part No. **TR-20494P** EPDM exterior glazing gasket complying with ASTM D573 70 HRS at 212°F, ASTM D412 1800 PSI, ASTM D395B 22 HRS at 158°F, ASTM D1149 100 HRS at 104°F passed, ASTM D325B passed and ASTM D2137 3-Minutes at -40°F passed.
3. Test Report No. **74326**, prepared by Excel Polymers, LLC, an A2LA accredited laboratory, dated 04/26/11, issued to Tremco, Inc. for TREMCO Part No. **TR-20087E** EPDM exterior glazing gasket complying with ASTM D573 70 HRS at 212°F, ASTM D412 1800 PSI, ASTM D395B 22 HRS at 158°F, ASTM D1149 100 HRS at 104°F passed, ASTM D325B passed, ASTM D2137 method A 3-Minutes at -40°F passed, ASTM D2240 durometer 70<sup>±5</sup> shore A, ASTM D624 tear die 200 lbf/ in. and ASTM D925 migration stain passed.

**F. STATEMENTS**

1. Statement letter of conformance and complying with **FBC-2010**, issued by W. W. Schafer Engineering & Consulting, P. A., dated 01/09/13, signed and sealed by Warren W. Schafer, P. E.

  
**Jaime D. Gascon, P. E.**  
Product Control Section Supervisor  
NOA No. 13-0522.12  
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**F. STATEMENTS (CONTINUED)**

2. Statement letter of no financial interest and independence, issued by W. W. Schafer Engineering & Consulting, P. A., dated 01/09/13, signed and sealed by Warren W. Schafer, P.E.
3. Laboratory compliance letters for Test Reports No.'s **ATI-C0439.03-550-18**, **ATI-C0439.05-550-18**, **ATI-C0439.06-550-18** and **ATI-C0439.09-550-18**, all above dated 04/11/13 and **ATI-C2283.01-550-18**, **ATI-C0438.01-450-18** and **ATI-C0438.02-450-18**, all others dated 03/28/13, all issued by Architectural Testing, Inc., signed and sealed by Vinu J. Abraham, P. E.
4. Proposal No. **11-0217** issued by Product Control, dated 06/15/12, signed by Jaime D. Gascon, P. E.

**G. OTHERS**

1. None.



**Jaime D. Gascon, P. E.**  
**Product Control Section Supervisor**  
**NOA No. 13-0522.12**  
**Expiration Date: August 01, 2018**  
**Approval Date: August 01, 2013**

1. THESE CURTAIN WALL SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT CURTAIN WALL SYSTEMS.
5. THESE CURTAIN WALL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS CURTAIN WALL SYSTEM.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED PER THE ASCE-7 STANDARD.
8. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW LOAD VERIFICATION ONLY.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
10. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.

1. DETERMINE IF THE WALL SYSTEM IS TO BE A MULTI-SPAN OR SINGLE SPAN CONDITION. IF MULTI-SPAN, THE ELEVATIONS SHOWN ON SHEET 3 SHALL APPLY. IF A SINGLE SPAN, THE ELEVATIONS SHOWN ON SHEET 4 SHALL APPLY.
2. ALLOWABLE GLASS PRESSURE SHALL BE CONSIDERED WITH ALL WALL CONDITIONS AND SHALL CONTROL IF LESS THAN THOSE ALLOWABLE PRESSURES DETERMINED FOR THE APPLICABLE FRAMING SYSTEM.

OPENING TYPE (SUBSTRATE)	ANCHOR TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
<b>1/4" OR NO. 14 SCREWS/BOLTS</b>			
(4) MIN. 6" WIDE X 2" THICK WOOD FRAME OR BUCK (MIN. GR. 2 & G=0.55)	1/4" LAG OR NO. 14 SMS OR WOOD SCREW	1 3/4"	1"
(4) MIN. 16 GA. 50 KSI METAL STUD, MIN. 1/8" THK A36 STEEL OR MIN. 1/8" THK 6063-T5 ALUMINUM	1/4-14 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
	1/4" GR. 5 CS OR 410 SS BOLT WITH WASHER & LOCK NUT	FULL	1/2"
MIN. 3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
<b>5/16" SCREWS/BOLTS</b>			
MIN. 1/8" THK A36 STEEL	5/16-24 GR. 5 SELF TAP/DRILL SCREW	FULL	5/8"
	5/16" GR. 5 CS OR 410 SS BOLT WITH WASHER & LOCK NUT	FULL	5/8"
<b>1/2" SCREWS/BOLTS</b>			
MIN. 1/4" THK A36 STEEL	1/2-13 300 SS HCMS OR GR. 5 CS THREAD FORMING SCREW	FULL	1"
MIN. 1/8" THK A36 STEEL	1/2" GR. 5 CS OR 410 SS BOLT WITH WASHER & LOCK NUT	FULL	1"
(3) MIN. 3000 PSI CONCRETE	(2) 1/2" CONCRETE SCREW ANCHOR	3 3/4"	SEE DETAILS

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) 1/2" CONCRETE SCREWS SHALL BE SIMPSON STRONG-TIE TITAN HD SCREW ANCHOR (GALVANIZED STEEL).
- (3) SEE DETAILS ON SHEETS 8 & 9 FOR CONCRETE THICKNESS REQUIREMENTS WHEN 1/2" CONCRETE SCREWS ARE USED.
- (4) WOOD AND METAL STUD SUBSTRATES MAY NOT APPLY WITH LEVEL "E" CURTAIN WALL.

HEAD & SILL MEMBERS TO STANDARD VERTICAL SIDE & INTERMEDIATE MEMBERS: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED THROUGH VERTICAL MEMBERS & INTO THE HORIZONTAL MEMBERS SCREW SPLINES WITH 2 NO. 12 X 1" HWHITF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

INTERMEDIATE HORIZONTAL MEMBERS TO STANDARD VERTICAL SIDE & INTERMEDIATE MEMBERS: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED THROUGH VERTICAL MEMBERS & INTO THE HORIZONTAL MEMBERS SCREW SPLINES WITH 4 NO. 12 X 1" HWHITF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

HEAD & SILL MEMBERS TO CORNER FRAMING MEMBER: VERTICAL CORNER MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE MITER CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEMS #9 OR #10). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL CORNER FRAME MEMBERS WITH 4 NO. 12 X 7/16" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 2 NO. 12 X 5/8" PHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

INTERMEDIATE HORIZONTAL MEMBERS TO CORNER FRAMING MEMBER: VERTICAL MEMBERS RUN THROUGH WHILE THE HORIZONTAL MEMBERS ARE SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL MEMBERS VIA A SHEAR BLOCK (ITEM #11). THE SHEAR BLOCK IS MECHANICALLY FASTENED TO THE VERTICAL CORNER FRAME MEMBERS WITH 4 NO. 12 X 7/16" PHTF SCREWS. THE HORIZONTAL FRAME MEMBERS ARE ATTACHED TO THE SHEAR BLOCK WITH 4 NO. 12 X 1" FHTF SCREWS. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

THE MINIMUM & MAXIMUM ALLOWABLE SPACE BETWEEN PERIMETER FRAME MEMBERS & THE OPENING SUBSTRATE OR FINISHES SHALL BE SPECIFIED BY THE ENGINEER OR ARCHITECT OF RECORD FOR EACH JOB BUT SHALL NOT BE LESS THAN 1/2" NOR GREATER THAN 1 3/8". WHEN CONSIDERING TYPE, DEPTH & JOINT SPAN OF SEALANT, THE ENGINEER/ARCHITECT SHALL TAKE INTO CONSIDERATION THE DEFLECTION OF THE JAMB MEMBER THAT WOULD OCCUR WHILE SUPPORTING THE JOB REQUIRED DESIGN WIND PRESSURE. ALSO TO BE CONSIDERED SHALL BE THE MATERIALS & SURFACES TO WHICH THE SEALANT WILL BE APPLIED.

PERIMETER SIDE FRAMING  
/ MEMBERS:  
LESSER OF L/180 OR 0.86"

1.  $L/180$  = MEMBER'S UNSUPPORTED SPAN LENGTH DIVIDED BY 180.
2. THIS IS THE MAXIMUM ALLOWABLE DEFLECTION AS RESTRICTED BY TESTING & THE BUILDING CODE. IF JOB CONDITIONS REQUIRE LESS DEFLECTION, THE JOB CONDITIONS SHALL CONTROL.

## +130/-130 PSF

1. THE ABOVE STATED PRESSURES ARE THE MAXIMUM ALLOWED ON ANY JOB REGARDLESS OF WHAT THE JOB SPECIFIC DESIGN RESULTS MAY SHOW. INCREASE OF ALLOWABLE DESIGN PRESSURE ON ANY JOB IS CONSIDERED OUTSIDE THE SCOPE OF THIS APPROVAL. SEE "CURTAIN WALL DESIGN NOTES" ON THIS SHEET FOR ACTUAL JOB DESIGN CONDITIONS.
2. SEE "GLASS D.L.O. SIZE VS. PRESSURE" TABLE ON THIS SHEET FOR GLASS PRESSURE RESTRICTIONS. THE LESSER OF THE ALLOWABLE PRESSURE ON THE FRAMING SYSTEM AND THAT OF THE GLASS SHALL CONTROL FOR THE OVERALL SYSTEM.

GLASS OPTIONS	MAXIMUM D.L.O. WIDTH	MAXIMUM D.L.O. HEIGHT	MISSILE LEVEL RATING	ALLOWABLE DESIGN PRESSURE
1	60"	93"	D	+/-90 PSF
	93"	60"	D	+/-90 PSF
2	60"	93"	D	+/-110 PSF
	93"	60"	D	+/-110 PSF
3	60"	93"	E	+/-130 PSF
	93"	60"	E	+/-130 PSF

SEE GLAZING DETAILS FOR GLASS OPTIONS

Approved as complying with the  
Florida Building Code  
Date 08/01/2019  
NOA# 13-0522, 12  
Miami Dade Product Control

By Charles E. [Signature]

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR NATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

[illegible]

DRAWING TITLE  
8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL

**LAWNEER COMPANY, INC.**  
555 GUTHRIDGE COURT  
NORCROSS, GA 30092  
770-449-5555

**W. W. SCHAEFER ENGINEERING  
& CONSULTING, P.A. (CA 6809)**  
7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424

WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135

**CERTIFICATION**  
**APR 02 2013**

DRAWING NO. 1847	REV.
SHEET NO. 1 OF 21	

VERTICAL MEMBER END ANCHOR REACTION LOAD CAPACITY (MULTI & SINGLE SPAN CURTAIN WALL)		
ANCHOR SECTION (3)	ANCHOR DESCRIPTION	(1) MAXIMUM ALLOWABLE REACTION LOAD
A1	SIDE MEMBER TO WOOD, METAL STUD OR ALUMINUM SUBSTRATE	877 LBS
A2	SIDE MEMBER TO STEEL SUBSTRATE	2058 LBS
A3	SIDE MEMBER TO CONCRETE SUBSTRATE	1990 LBS
B1	INTERMEDIATE MEMBER TO WOOD, METAL STUD OR ALUMINUM SUBSTRATE	1646 LBS
B2	INTERMEDIATE MEMBER TO STEEL SUBSTRATE	4515 LBS
B3	INTERMEDIATE MEMBER TO CONCRETE SUBSTRATE	3626 LBS
C1	INTERMEDIATE DOOR JAMB MEMBER TO CONCRETE OR STEEL SUBSTRATE AT SILL	3511 LBS
D1	CORNER MEMBER TO STEEL SUBSTRATE	(2) 2726 LBS
D2	CORNER MEMBER TO CONCRETE SUBSTRATE	(2) 2726 LBS
(1) MAXIMUM ALLOWABLE REACTION LOADS SHOWN CONSIDER REACTIONS FROM WIND LOADS ONLY & APPLY TO BOTH POSITIVE & NEGATIVE WIND DIRECTIONS. IN ADDITION TO WIND LOADS, THE CURTAIN WALL DESIGN ENGINEER OF RECORD FOR EACH PROJECT SHALL ALSO CONSIDER OTHER APPLICABLE LOADS SUCH AS, BUT POSSIBLY NOT LIMITED TO, DEAD LOADS FROM THE CURTAIN WALL WEIGHT.		
(2) REACTION LOAD SHOWN FOR THE CORNER ANCHORS IS THE RESULTANT LOAD IN THE PLANE OF THE MULLION (LOAD FROM BOTH SIDES COMBINED INTO A RESULTANT). FOR EITHER SIDE LOAD, THE ALLOWABLE REACTION LOAD SHALL NOT EXCEED 1928 LBS FROM EITHER SIDE FOR ANCHOR TYPES D1 & D2.		
(3) FOR ANCHOR SECTIONS, SEE SECTIONS ON SHEETS 7 & 8.		

WIND LOAD ANCHOR REACTION LOAD CAPACITY (MULTI & SINGLE SPAN CURTAIN WALL)	
MEMBER TYPE	(1) MAXIMUM ALLOWABLE REACTION LOAD
SIDE	6125 LBS
INTERMEDIATE	11789 LBS
CORNER	(2) 8661 LBS
(1) WIND LOAD ANCHORS ARE APPLICABLE FOR WIND LOAD RESISTANCE ONLY. THEY ARE NOT APPLICABLE FOR SUPPORT OF WALL WEIGHT.	
(2) REACTION LOAD SHOWN FOR THE CORNER ANCHORS IS THE RESULTANT LOAD IN THE PLANE OF THE MULLION (LOAD FROM BOTH SIDES COMBINED INTO A RESULTANT). FOR EITHER SIDE LOAD, THE ALLOWABLE REACTION LOAD SHALL NOT EXCEED 6125 LBS FROM EITHER SIDE.	

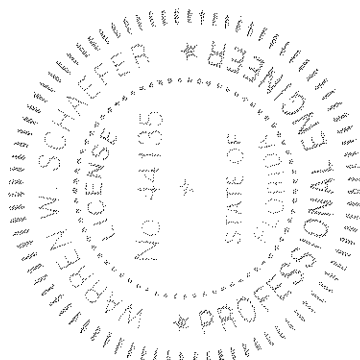
(1) MAXIMUM ALLOWABLE BENDING MOMENTS IN VERTICAL FRAMING MEMBERS (MULTI AND SINGLE SPAN WALLS)	
(2) VERTICAL MEMBER	(3) MAXIMUM ALLOWABLE BENDING MOMENT (POS & NEG)
SIDE MEMBER WITH REINFORCEMENT "R0"	(5) 61558 IN-LB
SIDE MEMBER WITH REINFORCEMENT "R1"	(5) 104060 IN-LB
SIDE MEMBER WITH REINFORCEMENT "R2"	(5) 104060 IN-LB
INTERMEDIATE MEMBER WITH NO REINFORCEMENT	56110 IN-LB
INTERMEDIATE MEMBER WITH REINFORCEMENT "R1"	98309 IN-LB
INTERMEDIATE MEMBER WITH REINFORCEMENT "R2"	185145 IN-LB
CORNER MEMBER WITH REINFORCEMENT "R3"	(4) 147141 IN-LB

NOTES:  
(1) THE VALUES IN THIS TABLE ARE APPLICABLE TO THE JOB REQUIRED DESIGN OF THE MULTI-SPAN & SINGLE SPAN WALL SYSTEMS.  
(2) FOR DESCRIPTIONS OF REINFORCEMENTS, SEE THE "VERTICAL MEMBER REINFORCEMENT LEGEND".  
(3) ALL VALUES ARE BASED ON THE LESSER OF TESTED MOMENT AND ALLOWABLE MOMENT.  
(4) MOMENT VALUE SHOWN FOR THE CORNER MULLION IS DUE TO THE RESULTANT LOAD IN THE PLANE OF THE MULLION (LOAD FROM BOTH SIDES COMBINED INTO A RESULTANT). FOR SINGLE SIDE LOAD, THE ALLOWABLE MOMENT SHALL NOT EXCEED 104060 IN-LB. IN THAT DIRECTION (LOAD VECTOR 45 DEGREES TO MULLION ANGLE).  
(5) WHEN 2 SIDE MEMBERS ARE USED TO FORM A CORNER, EACH SIDE MEMBER SHALL BE RESTRICTED TO THE INDIVIDUAL ALLOWABLE MOMENT SHOWN IN THIS TABLE (EACH CONSIDERED TO RESIST ITS OWN SINGLE SIDE LOAD).

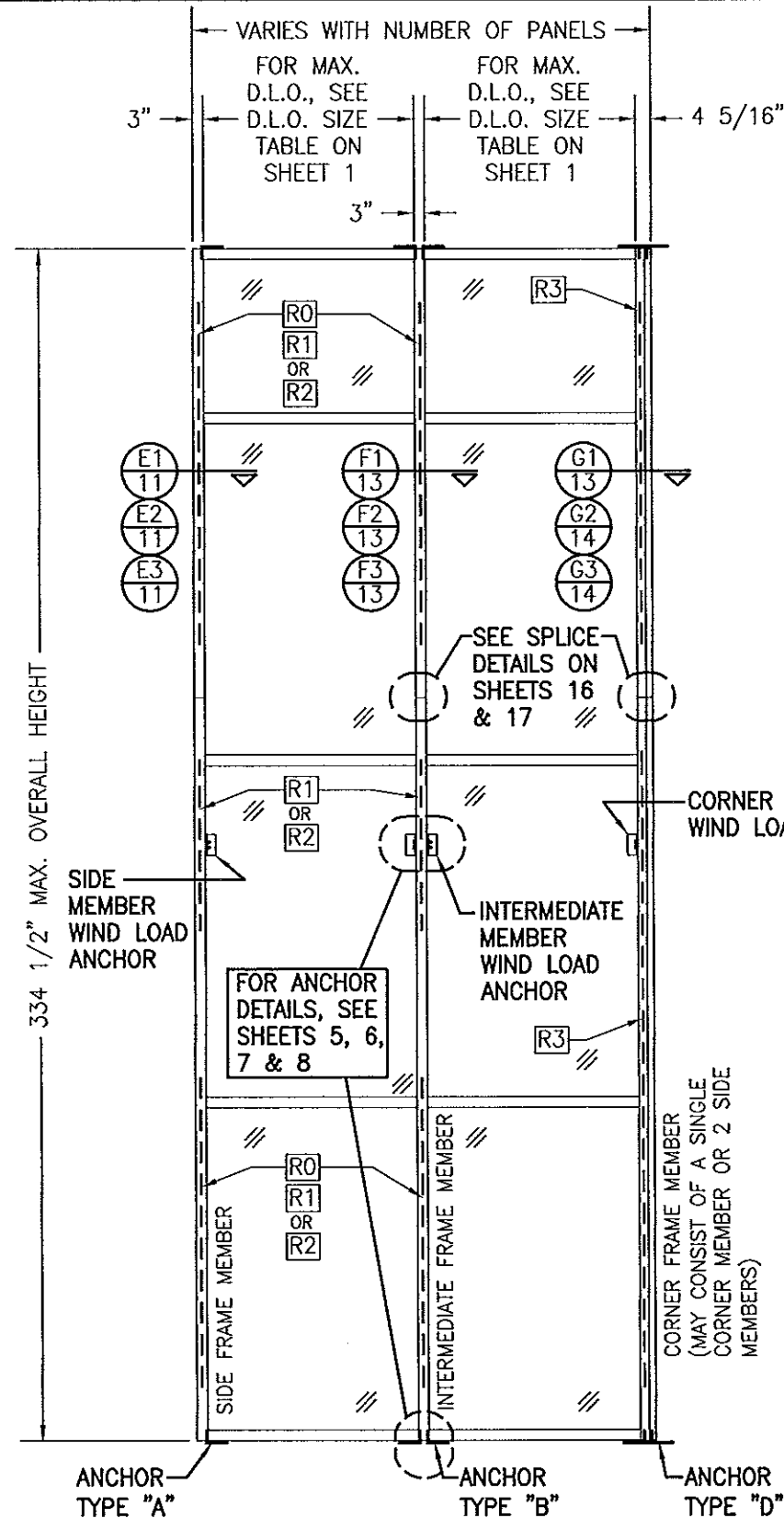
**CURTAIN WALL DESIGN NOTES:**  
1. WITH EACH APPLICABLE JOB, SHOP DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A LICENSED ENGINEER EXPERIENCED WITH CURTAIN WALL DESIGN.  
2. THE RESPONSIBLE ENGINEER SHALL DESIGN THE WALL SYSTEM SEPARATELY FOR EACH JOB & CONFIRM THAT ALL CONDITIONS STATED HERE-IN HAVE BEEN CONSIDERED AND ADHERED TO IN THAT DESIGN.  
3. IN HIS/HER DESIGN, THE RESPONSIBLE ENGINEER SHALL VERIFY THE INTEGRITY OF ALL CONNECTIONS AND FRAMING MEMBERS & SHALL TAKE FULL RESPONSIBILITY FOR THE INTEGRITY OF THE SYSTEM DESIGN AS A WHOLE WHILE NOT ALLOWING THE CONDITIONS STATED HERE-IN TO BE EXCEEDED. ALLOWABLE SUPPORT REACTIONS AND VERTICAL FRAMING MEMBER BENDING MOMENTS SHALL NOT EXCEED THOSE STATED IN THE TABLES ON THIS SHEET, REGARDLESS OF JOB DESIGN.  
4. THE CURTAIN WALL DESIGN ENGINEER SHALL CONSIDER ALL APPLICABLE REACTION LOADS IN HIS/HER DESIGN WHILE NOT ALLOWING THE REACTIONS RESULTING FROM WIND LOADS TO EXCEED THOSE SPECIFIED IN THE ANCHOR REACTION LOAD TABLE.  
5. THE WORSE CASE OF THE CONDITIONS SPECIFIED IN THIS PRODUCT APPROVAL DRAWING AND THOSE DETERMINED BY THE INDIVIDUAL JOB ENGINEER'S ANALYSIS & DESIGN SHALL CONTROL AS APPLICABLE FOR THE ACTUAL JOB.  
6. REGARDLESS OF JOB DETERMINED MEMBER STRESS & DEFLECTION CONDITIONS, THE FOLLOWING SHALL APPLY:  
A. REINFORCEMENT TYPE R1 MUST BE PLACED BETWEEN SUPPORTS IN ALL VERTICAL FRAME MEMBERS THAT SPAN OVER 132" BETWEEN THEIR SUPPORTS (NOT REQUIRED IF THE UNSUPPORTED SPAN IS 132" OR LESS & THE JOB DESIGN ALLOWS FOR NO REINFORCEMENT).  
B. REINFORCEMENT TYPE R2 MUST BE PLACED BETWEEN SUPPORTS IN ALL VERTICAL FRAME MEMBERS THAT SPAN OVER 144" BETWEEN THEIR SUPPORTS (NOT REQUIRED IF THE UNSUPPORTED SPAN IS 144" OR LESS & THE JOB DESIGN ALLOWS FOR LESSER OR NO REINFORCEMENT).  
C. ALL VERTICAL INTERMEDIATE FRAMING MEMBERS SHALL BE REINFORCED ACROSS ALL INTERMEDIATE WIND LOAD ANCHOR LOCATIONS WITH ONE OF THE REINFORCEMENT TYPES R1 OR R2 AS SPECIFIED IN THE ELEVATION. THIS REINFORCEMENT SHALL EXTEND A MINIMUM OF 18" ABOVE & BELOW THE SUPPORT.  
D. REINFORCEMENT TYPE R3 IS REQUIRED IN ALL VERTICAL CORNER FRAME MEMBERS. IT SHALL BE CONTINUOUS BETWEEN ALL MEMBER SPLICE JOINTS AND EXTEND TO WITHIN 15" OF WALL BASE, 15" OF A SPLICE & 15" OF THE WALL TOP.  
7. REINFORCEMENT IS NOT REQUIRED TO BE CONTINUOUS TOP TO BOTTOM WITHIN THE VERTICAL FRAMING MEMBERS. REINFORCEMENT MAY BE NON-CONTINUOUS, AS DETERMINED FOR EACH JOB, PROVIDING IT MEETS THE MINIMUM GUIDELINES OF THIS DRAWING.  
8. WHILE A TWIN SPAN IS SHOWN, MORE THAN 2 SPANS MAY EXIST WITHIN THE MAXIMUM OVERALL HEIGHT SHOWN.  
9. THE OVERALL CURTAIN WALL HEIGHT SHALL NOT EXCEED THAT SPECIFIED. HOWEVER, MORE THAN ONE CURTAIN WALL ASSEMBLY MAY BE STACKED ON ANY BUILDING PROVIDING EACH CURTAIN WALL ASSEMBLY IS RESTED ON SEPARATE BASE STRUCTURE.  
10. SPLICING OF VERTICAL FRAME MEMBERS MAY OCCUR BETWEEN SUPPORTS AS REQUIRED. LOCATION OF THOSE SPLICES SHALL BE WHERE A BENDING MOMENT OF NEAR ZERO(0) EXISTS IN THE MEMBER.  
11. THE ELEVATIONS SHOW ONE DOOR SECTION. MULTIPLE DOOR SECTIONS MAY OCCUR SIDE-BY-SIDE IN ONE WALL SYSTEM PROVIDING ALL REQUIREMENTS WITHIN THIS DRAWING ARE MET AND THE JOB DESIGN ALLOWS FOR THE MULTIPLE DOOR CONDITION.  
12. ALTHOUGH A DOOR SECTION IS SHOWN, THAT SECTION MAY EXIST WITH OR WITHOUT A DOOR.  
13. DOORS MUST ALWAYS BE PLACED BETWEEN 2 INTERMEDIATE VERTICAL FRAMING MEMBERS. THEY MAY NOT BE PLACED AGAINST A SIDE MEMBER.  
14. THERE IS NO LIMIT TO THE NUMBER OF SECTIONS HORIZONTALLY PROVIDING THE OPENING IS DESIGNED TO SUPPORT THE LOADS TRANSFERRED FROM THE WALL SYSTEM.  
15. ANY CONDITIONS THAT VARY FROM THOSE SPECIFIED HERE-IN SHALL BE SUBJECT TO SEPARATE EVALUATION AND CERTIFICATION BY A FLORIDA P.E. AND SHALL BE CONSIDERED OUTSIDE THE SCOPE OF THIS APPROVAL.

VERTICAL MEMBER REINFORCEMENT LEGEND	
[R0]	= NO REINFORCEMENT
[R1]	= REINFORCED WITH 1 STEEL BAR PART NUMBER 28
[R2]	= REINFORCED WITH 2 STEEL BARS PART NUMBER 28
[R3]	= REINFORCED WITH 3 STEEL CHANNELS PART NUMBERS 29, 30 & 31
SEE PARTS DRAWINGS & PARTS LIST FOR APPLICABLE REINFORCEMENT MEMBERS & THEIR DETAIL.	

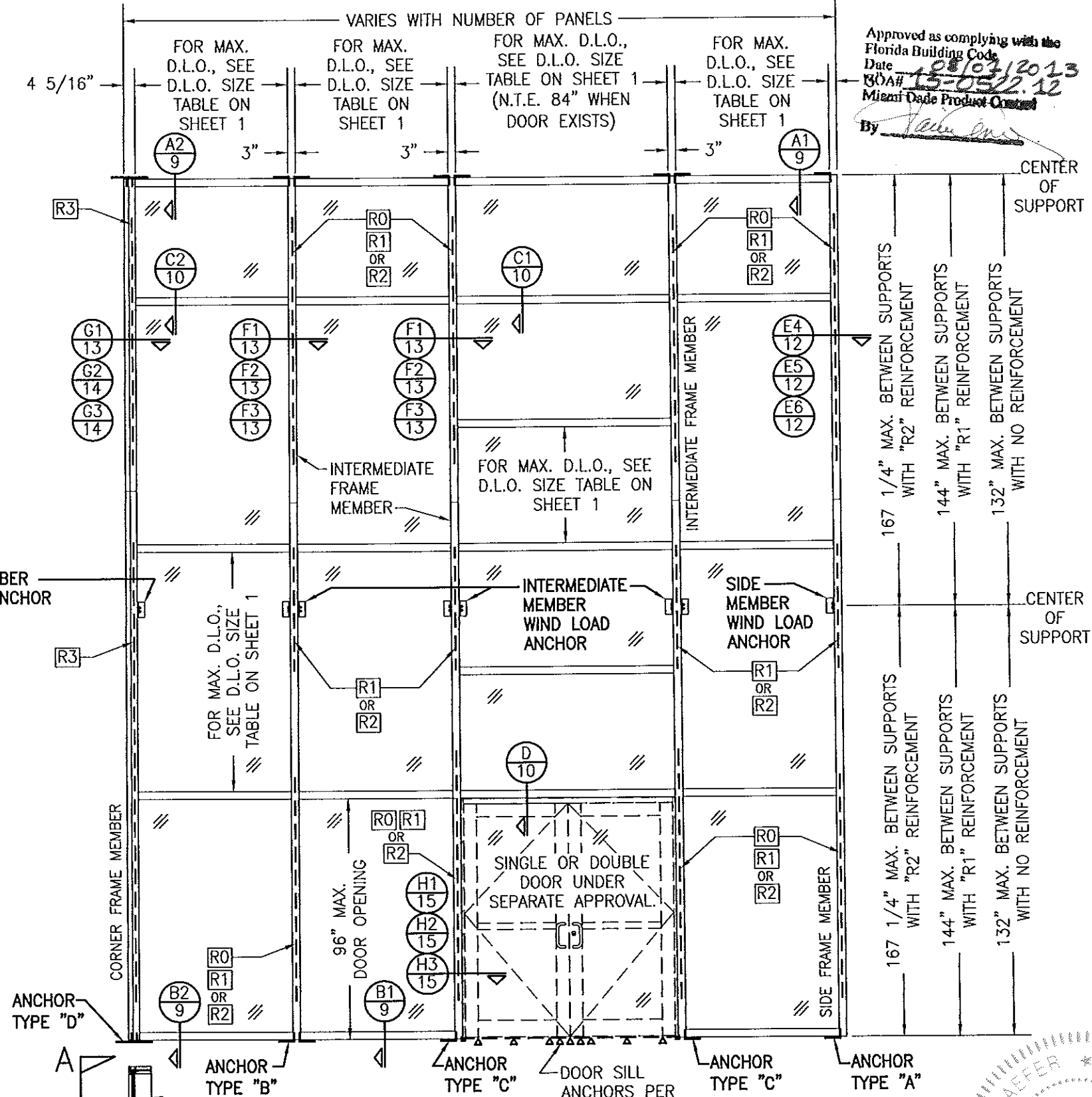
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Florida Building Code  
Date 08/01/2013  
NOA# 15-0522-12  
Miami Dade Product Control  
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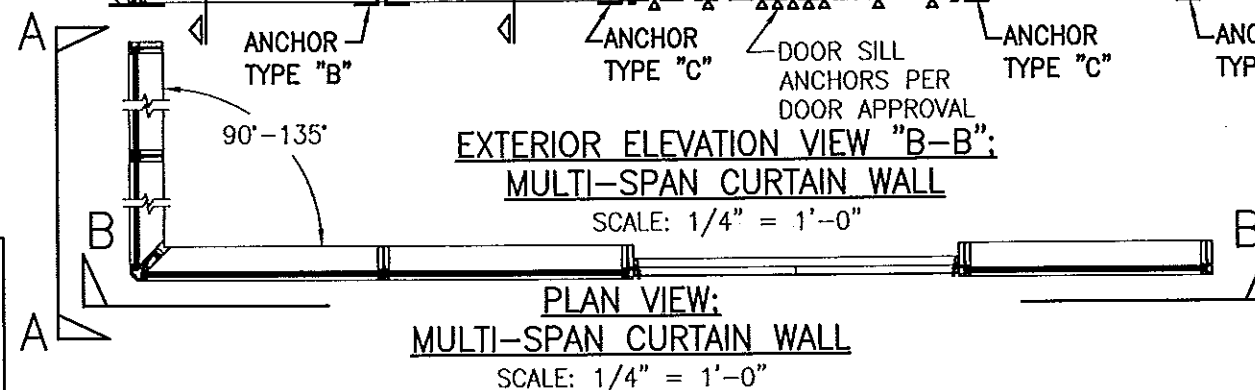
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PLOT: 1=48	DATE: 01/15/13
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL	MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555
CONSULTANTS: W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	P.E. NO. 44135
CERTIFICATION: APR 02 2013	DRAWING NO. 1847
	SHEET NO. 2 OF 21



EXTERIOR ELEVATION VIEW "A-A":  
MULTI-SPAN CURTAIN WALL  
SCALE: 1/4" = 1'-0"



EXTERIOR ELEVATION VIEW "B-B":  
MULTI-SPAN CURTAIN WALL  
SCALE: 1/4" = 1'-0"



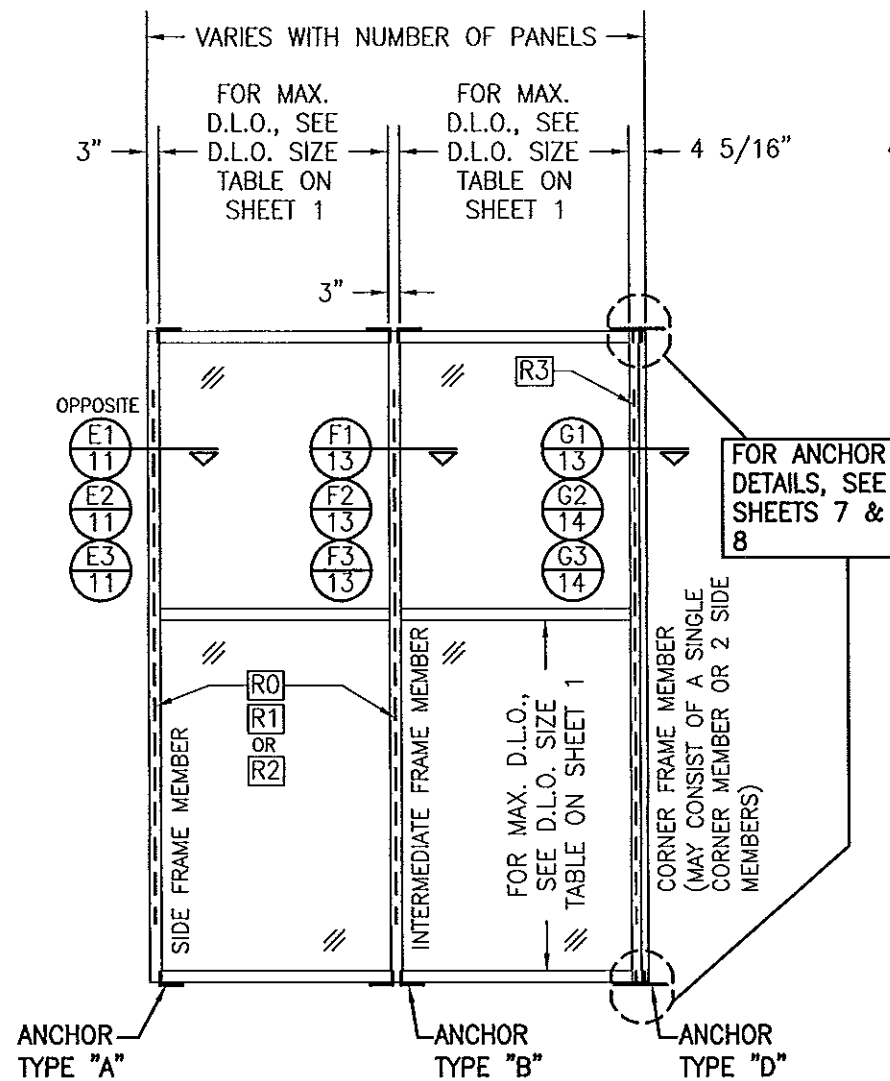
PLAN VIEW:  
MULTI-SPAN CURTAIN WALL  
SCALE: 1/4" = 1'-0"

**VERTICAL FRAME MEMBER END ANCHOR NOTE:**  
END ANCHORS AT THE TOP ENDS MAY BE TYPES "A", "B" OR "D" AS SPECIFIED AT THE BASE OR THEY MAY BE SUBSTITUTED WITH WIND LOAD ANCHORS. IF WIND LOAD ANCHORS ARE USED, THEY MUST BE POSITIONED SUCH THAT THE WIND LOAD ANCHOR TOP EDGE IS NO MORE THAN 6" DOWN FROM THE VERTICAL MEMBER END.

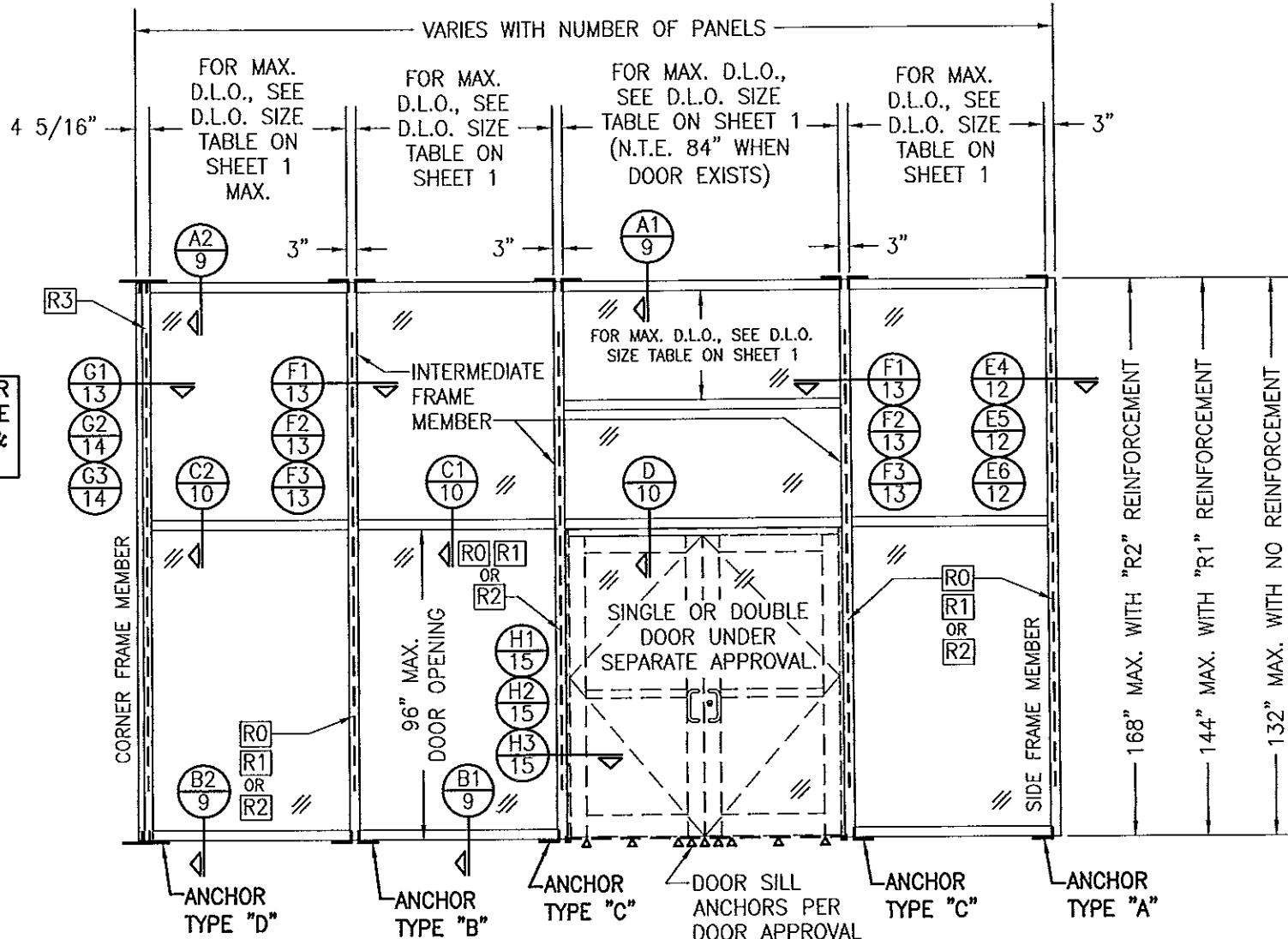
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Date: 12/04/2013  
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Miami Dade Product Control  
By: [Signature]

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=48	DATE: 01/15/13
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION APR 02 2013	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1847	REV.
SHEET NO. 3 OF 21	

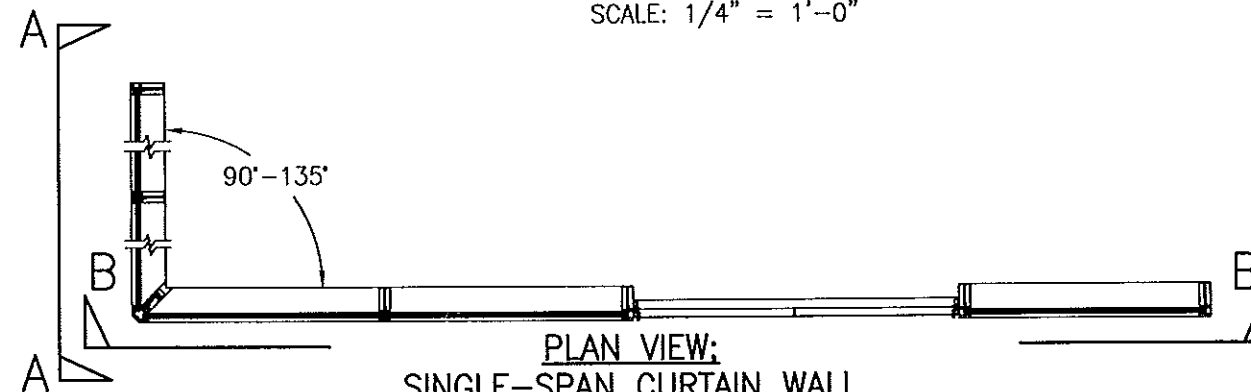




EXTERIOR ELEVATION VIEW "A-A":  
SINGLE-SPAN CURTAIN WALL  
SCALE: 1/4" = 1'-0"



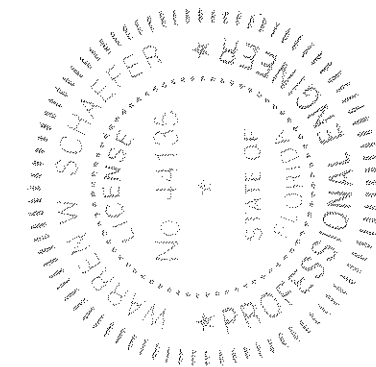
EXTERIOR ELEVATION VIEW "B-B":  
SINGLE-SPAN CURTAIN WALL  
SCALE: 1/4" = 1'-0"



PLAN VIEW:  
SINGLE-SPAN CURTAIN WALL  
SCALE: 1/4" = 1'-0"

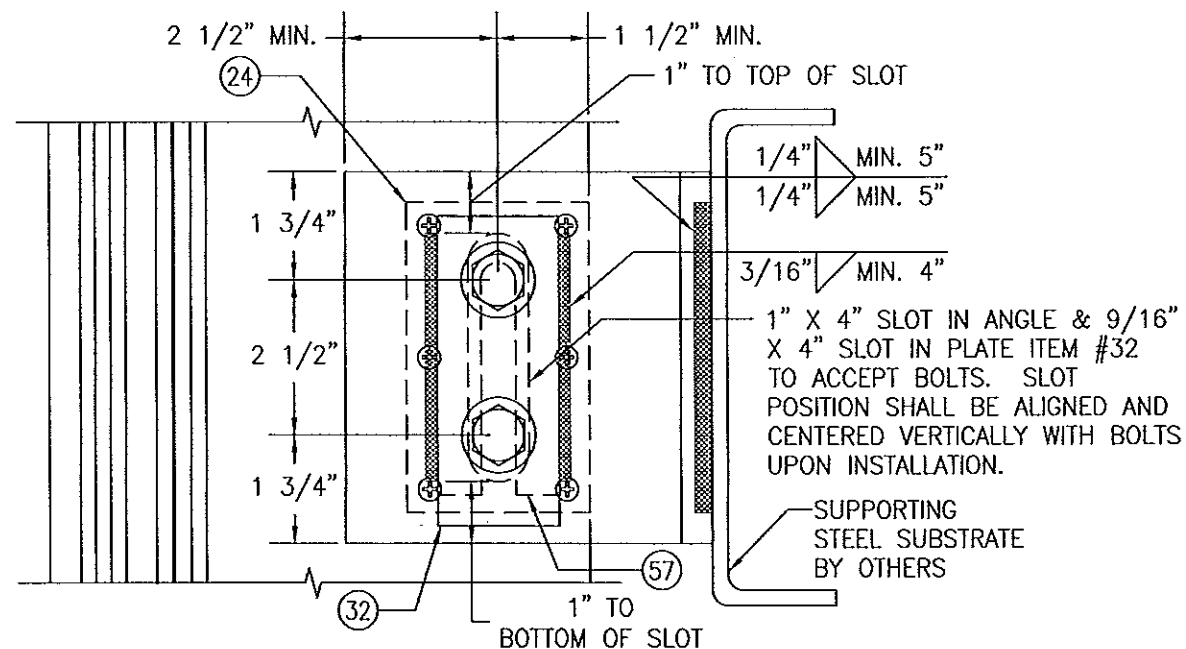
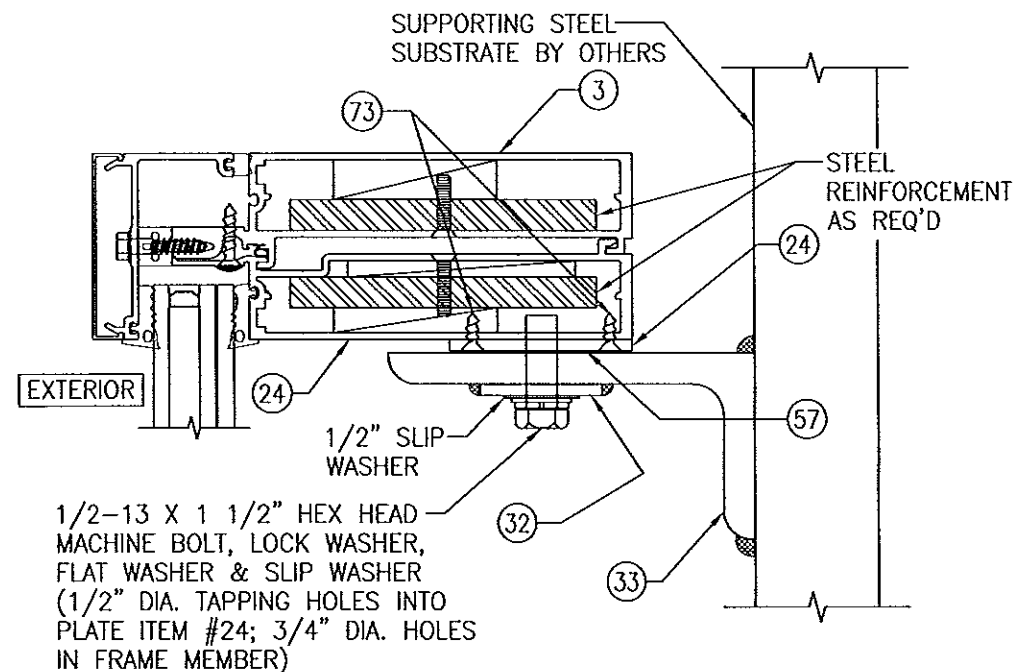
**VERTICAL FRAME MEMBER END ANCHOR NOTE:**  
END ANCHORS AT THE TOP ENDS MAY BE TYPES "A", "B" OR "D" AS SPECIFIED AT THE BASE OR THEY MAY BE SUBSTITUTED WITH WIND LOAD ANCHORS. IF WIND LOAD ANCHORS ARE USED, THEY MUST BE POSITIONED SUCH THAT THE WIND LOAD ANCHOR TOP EDGE IS NO MORE THAN 6" DOWN FROM THE VERTICAL MEMBER END.

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PLOT: 1=48		DATE: 01/15/13	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION	APR 02 2013	WARREN W. SCHAEFER P.E. P.E. NO. 44135	
DRAWING NO. 1847		REV.	
SHEET NO. 4 OF 21			



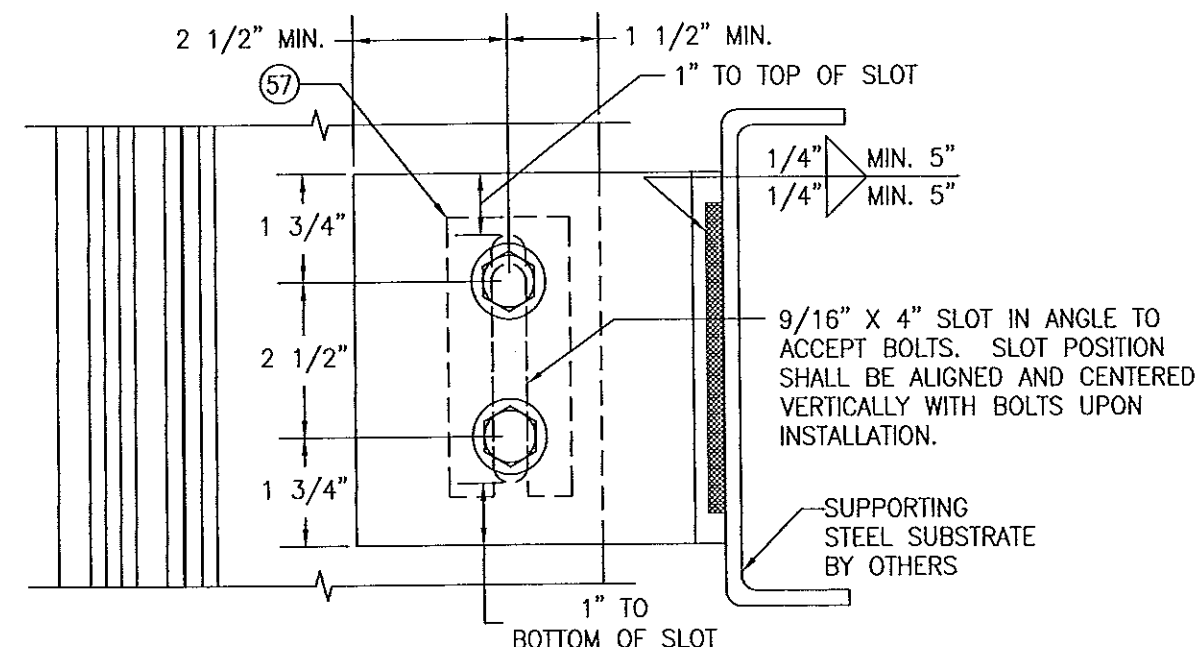
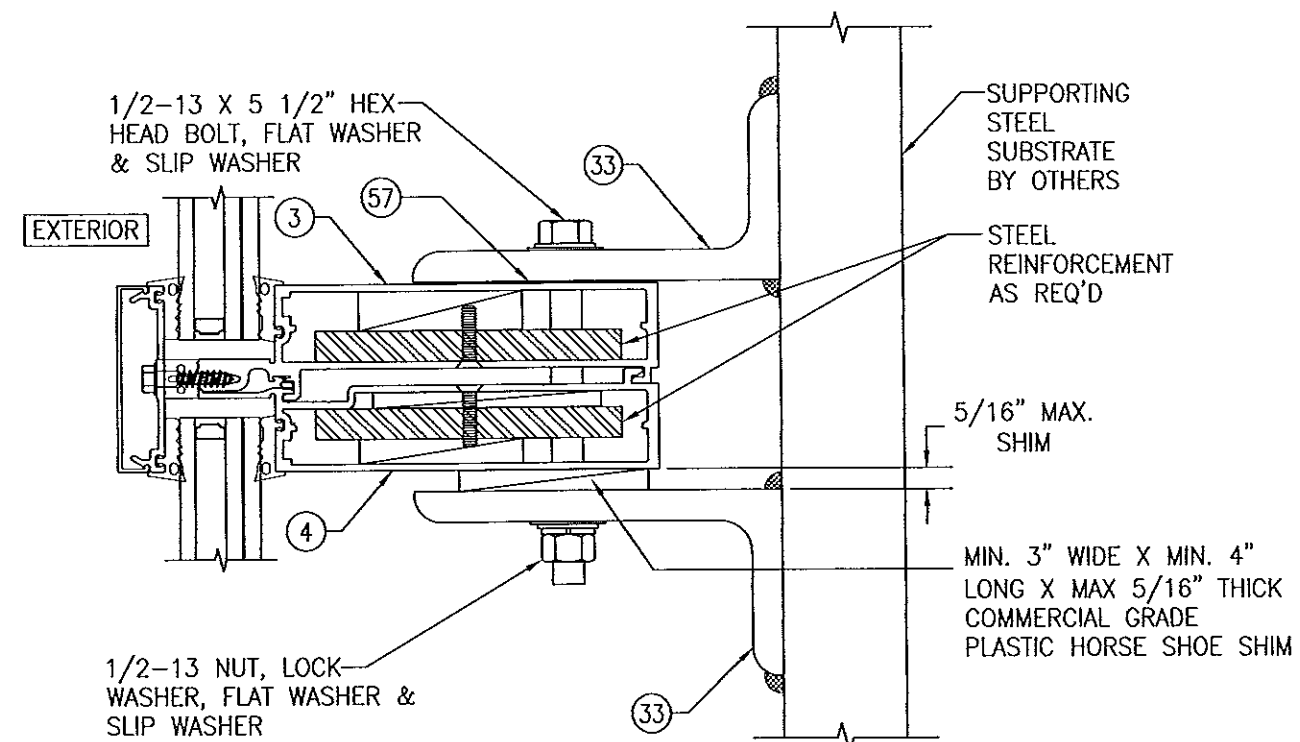


### STANDARD WIND LOAD ANCHOR AT SIDE MEMBERS

SCALE: 1/3 FULL

(FOR INFORMATION NOT SHOWN, SEE APPLICABLE SECTIONS E1/11 THROUGH E6/12.)

NOTE: ALL 1/2" BOLTS CONNECTING ANGLES TO MEMBERS SHALL BE GRADE 5 STEEL OR 300 SERIES STAINLESS STEEL.



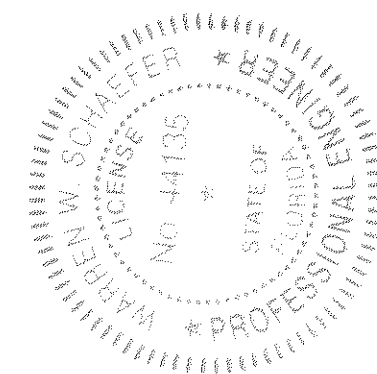
### STANDARD WIND LOAD ANCHOR AT INTERMEDIATE MEMBERS

SCALE: 1/3 FULL

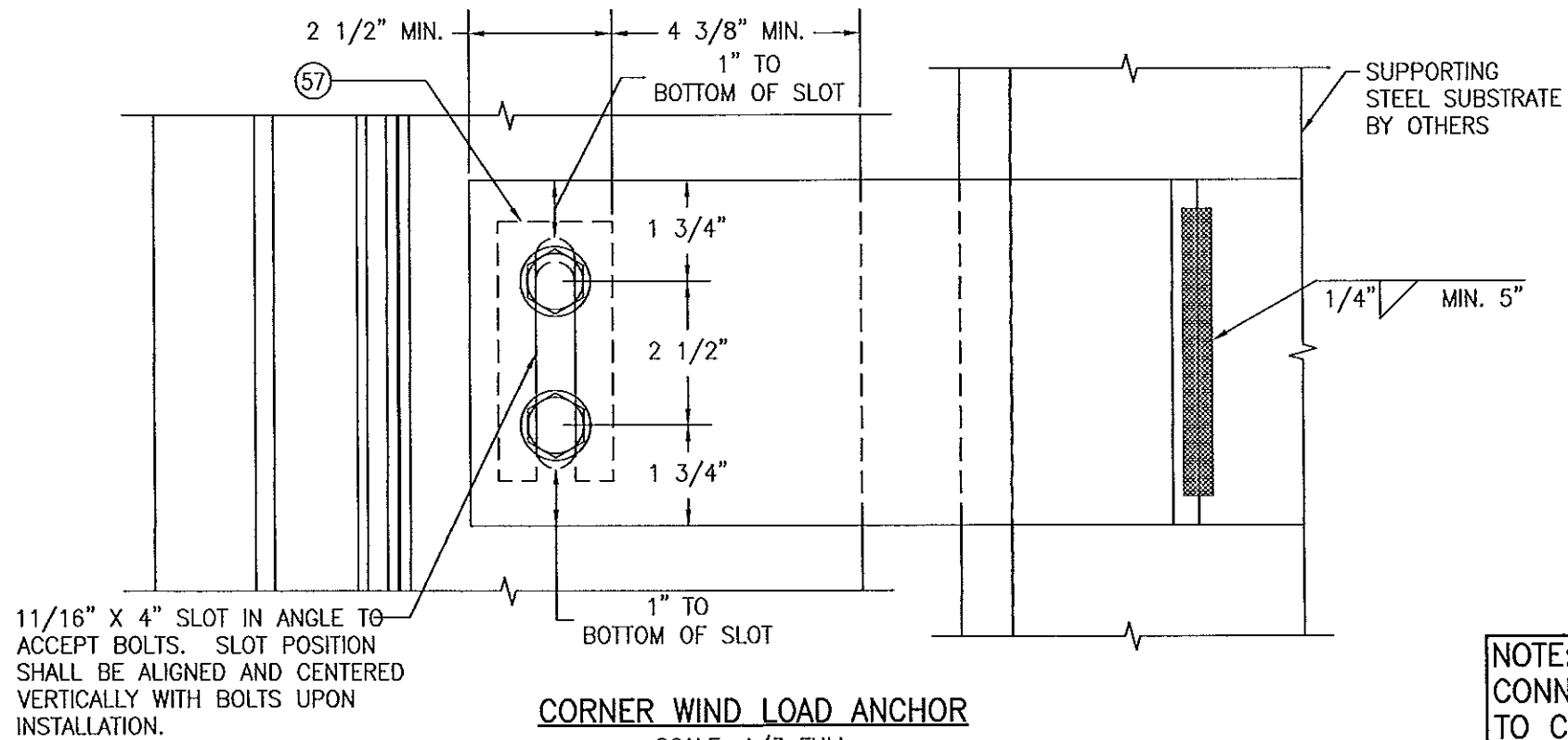
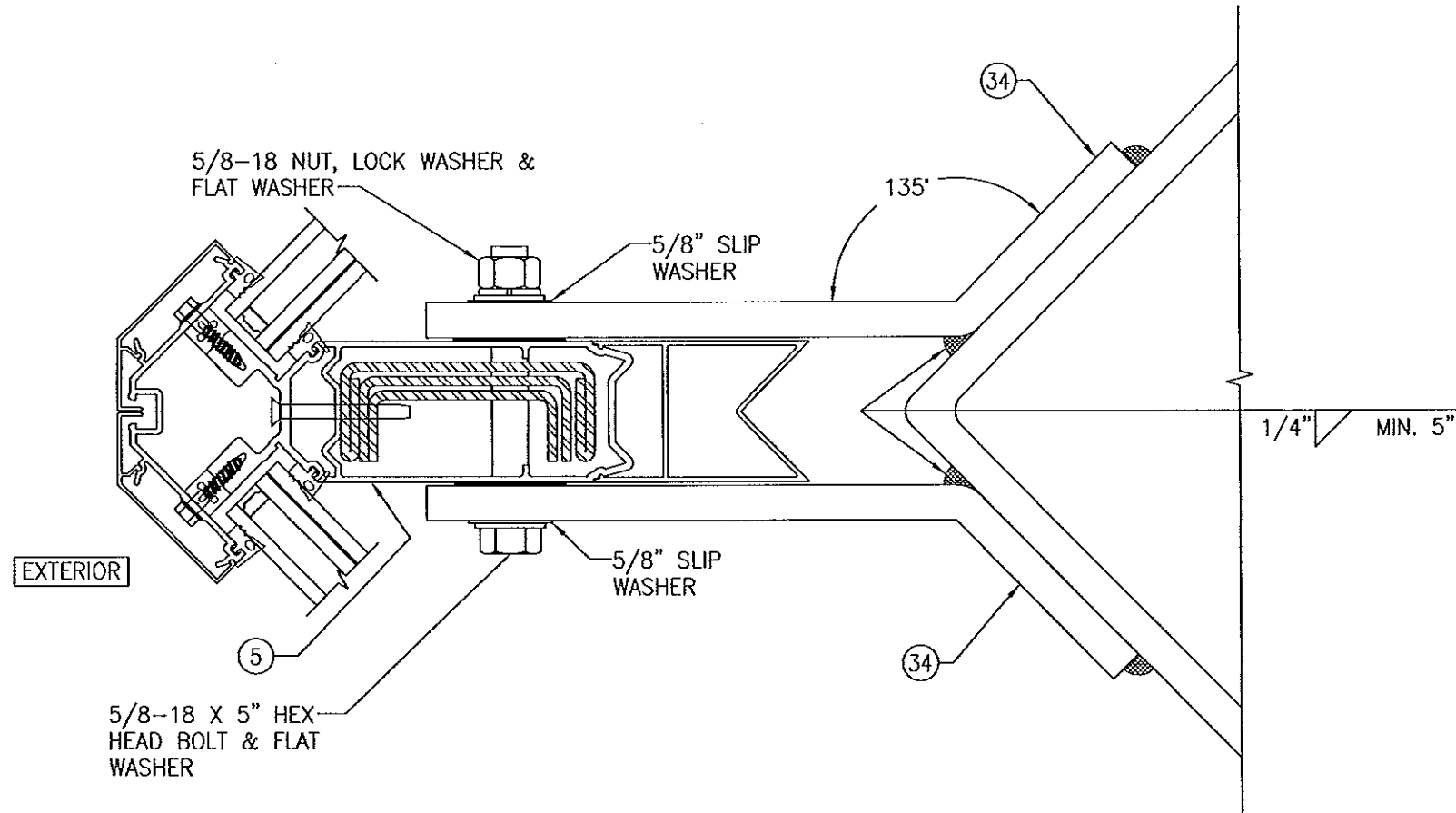
(FOR INFORMATION NOT SHOWN, SEE APPLICABLE SECTIONS F1/13 THROUGH F3/13.)

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Miami Dade Product Control

City



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PLOT: 1-3	DATE: 01/15/13
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL	MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
CERTIFICATION: APR 02 2013	DRAWING NO. 1847
	SHEET NO. 5 OF 21



### CORNER WIND LOAD ANCHOR

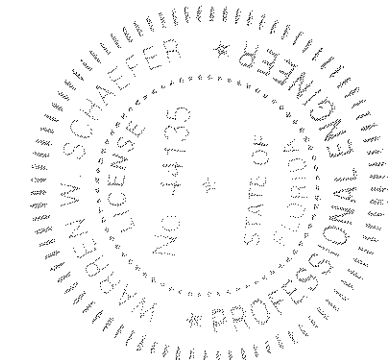
SCALE: 1/3 FULL

(FOR INFORMATION NOT SHOWN, SEE APPLICABLE SECTION G/13)

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NOTE: ALL 5/8" BOLTS  
CONNECTING BENT PLATES  
TO CORNER MEMBER SHALL  
BE GRADE 5 STEEL OR 300  
SERIES STAINLESS STEEL.



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PLOT: 1-3		DATE: 01/15/13	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION		P.E. NO. 44135	
APR 02 2013		WARREN W. SCHAEFER	
DRAWING NO. 1847		REV.	
SHEET NO. 6		OF 21	

**SIDE MEMBER ANCHOR TYPE "A"**  
SCALE: 1/4 FULL

**SECTION "A1" (INTO WOOD, CONCRETE, STEEL, METAL STUD OR ALUMINUM)**  
SCALE: 1/4 FULL  
(REINFORCEMENT NOT SHOWN FOR CLARITY, REINFORCE AS REQ'D)

**SECTION "A2" (INTO STEEL)**  
SCALE: 1/4 FULL

**SECTION "A3" (INTO CONCRETE)**  
SCALE: 1/4 FULL

**INTERMEDIATE MEMBER ANCHOR TYPE "B"**  
SCALE: 1/4 FULL

**SECTION "B1" (INTO WOOD, METAL STUD & ALUMINUM)**  
SCALE: 1/4 FULL

**SECTION "B2" (INTO STEEL)**  
SCALE: 1/4 FULL

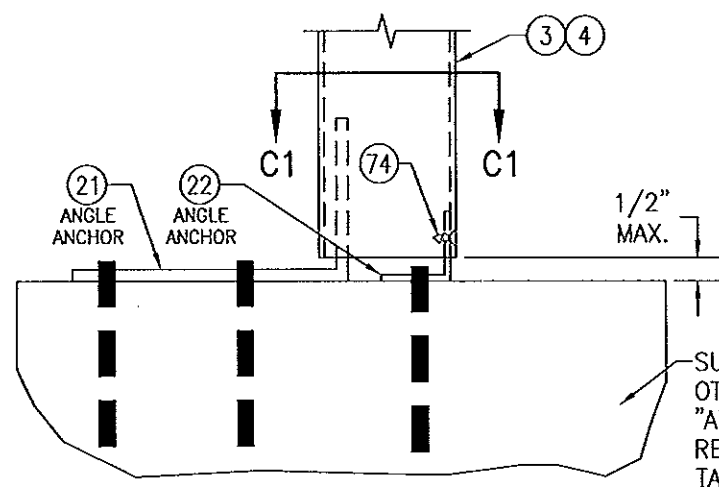
**SECTION "B3" (INTO CONCRETE)**  
SCALE: 1/4 FULL

**CONCRETE EDGE DISTANCE & THICKNESS REQUIREMENTS**

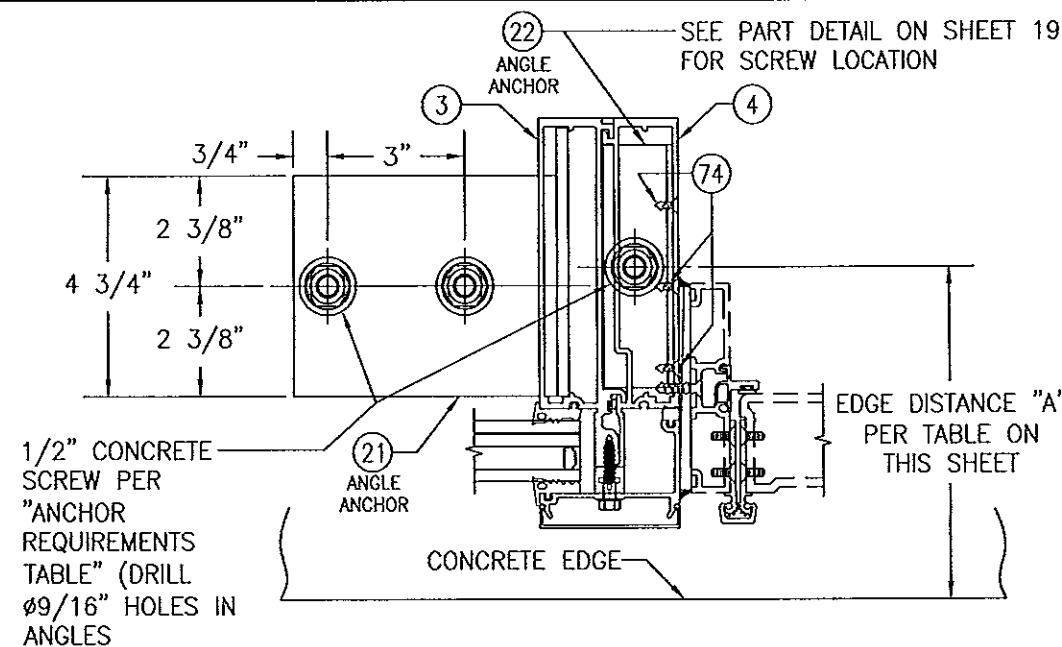
SECTION	MINIMUM SLAB THICKNESS	MINIMUM EDGE DIST. "A"	MINIMUM EDGE DIST. "B"
"A3"	6"	5"	4 1/2"
"B3"	7 1/2"	5"	N/A
	6"	6"	N/A

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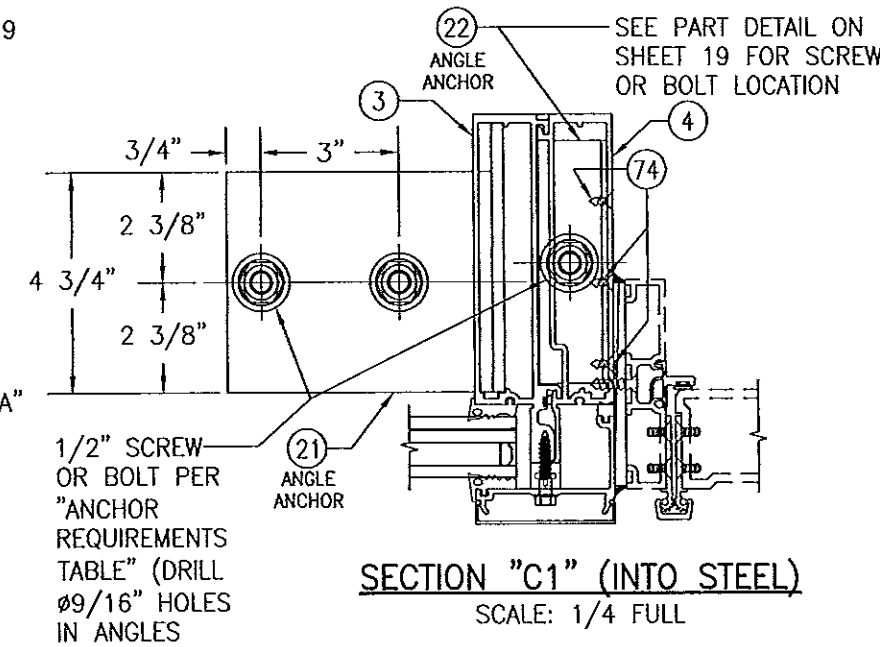
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PLOT: 1-4		DATE: 01/15/13	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418		555 GUTHRIE COURT, NORCROSS, GA 30092	
PHONE: 561-744-3424		770-449-5555	
CERTIFICATION: APR 02 2013		WARREN W. SCHAEFER, P.E.	
DRAWING NO. 1847		REV.	
SHEET NO. 7		OF 21	



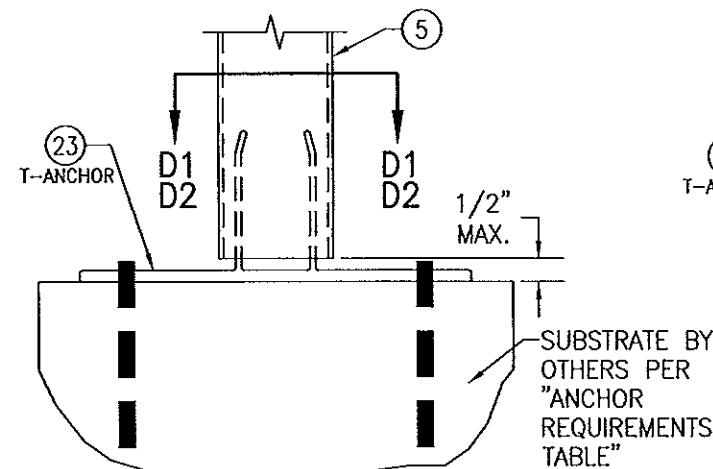
**INTERMEDIATE MEMBER ANCHOR TYPE "C"**  
(APPLICABLE AT BASE OF DOOR OPENINGS)  
SCALE: 1/4 FULL



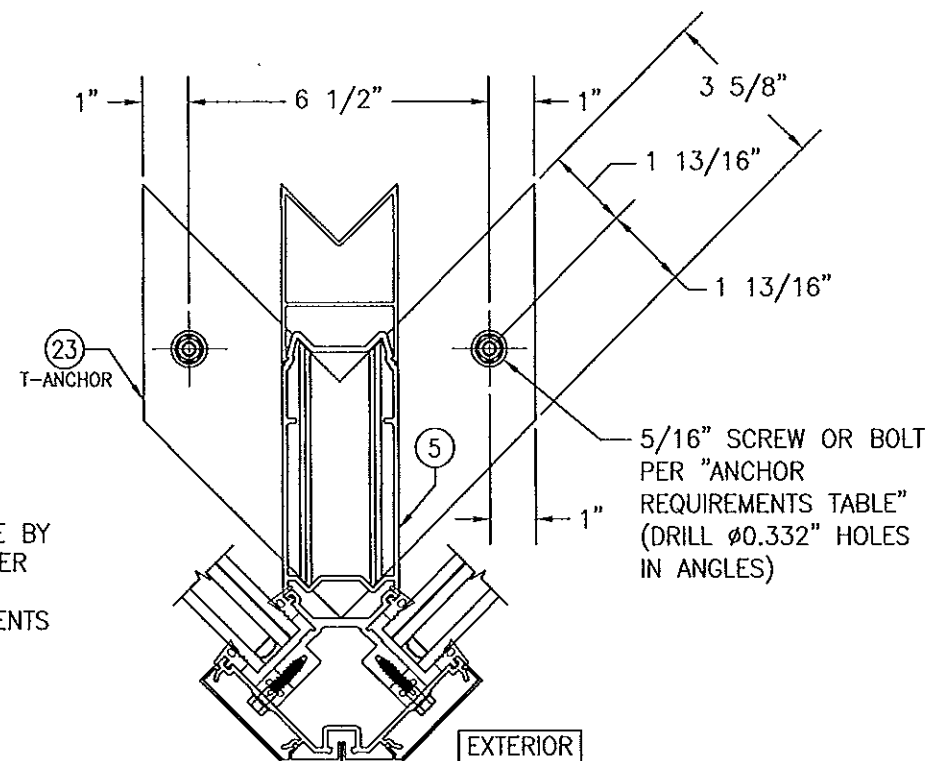
**SECTION "C1" (INTO CONCRETE)**  
SCALE: 1/4 FULL



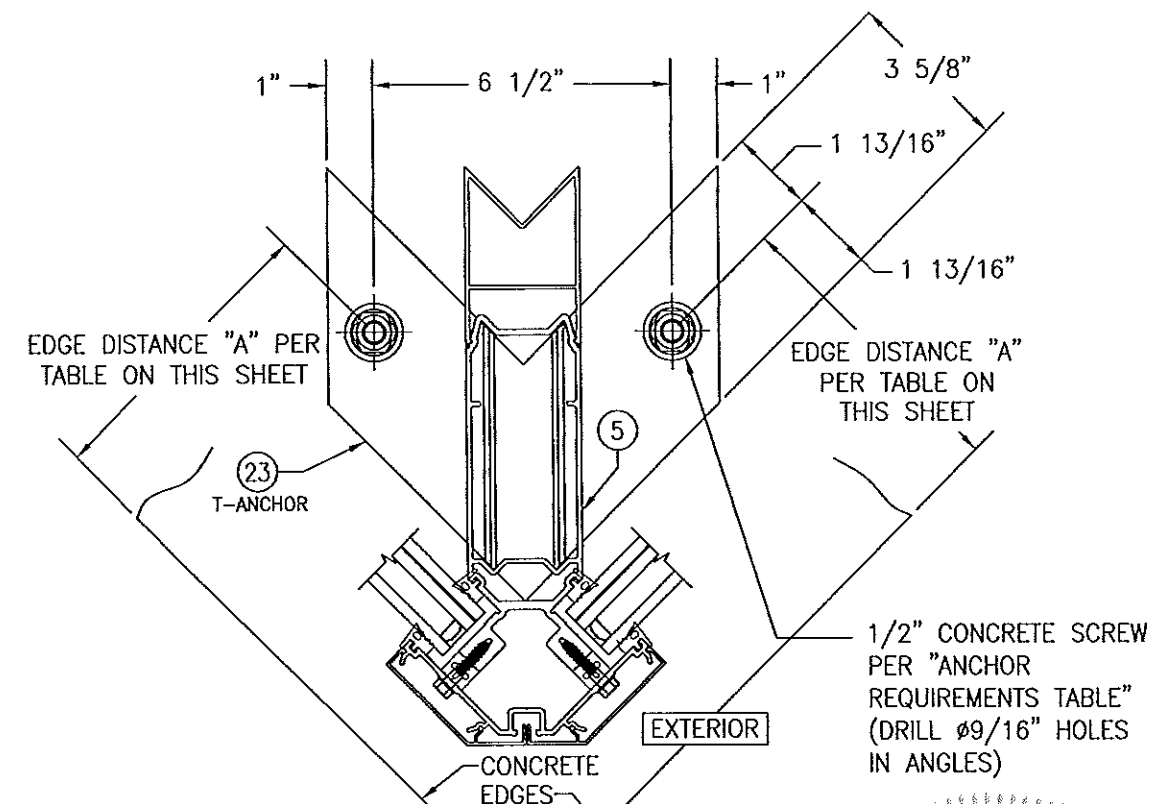
**SECTION "C1" (INTO STEEL)**  
SCALE: 1/4 FULL



**CORNER MEMBER ANCHOR TYPE "D"**  
SCALE: 1/4 FULL



**SECTION "D1" (INTO STEEL)**  
SCALE: 1/4 FULL

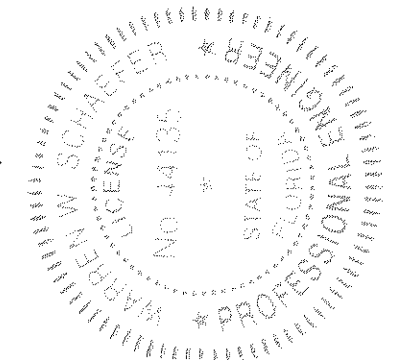


**SECTION "D2" (INTO CONCRETE)**  
SCALE: 1/4 FULL

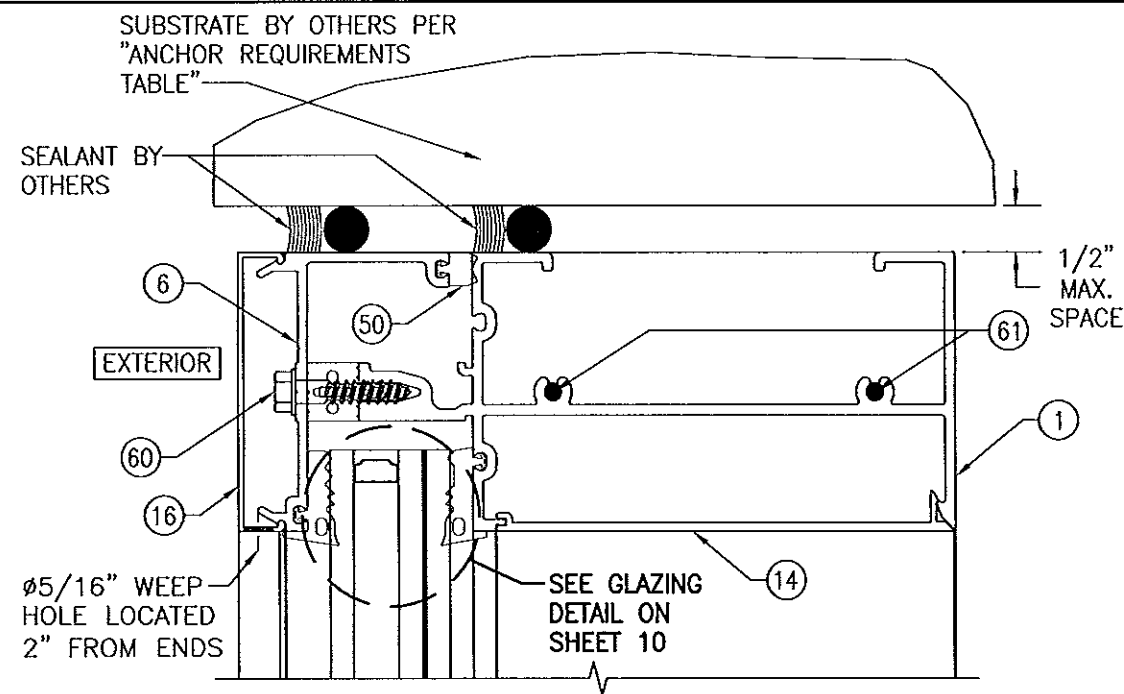
**CONCRETE EDGE DISTANCE & THICKNESS REQUIREMENTS**

SECTION	MINIMUM SLAB THICKNESS	MINIMUM EDGE DIST. "A"
"C1"	7 1/2"	5 3/4"
"D2"	6"	5"

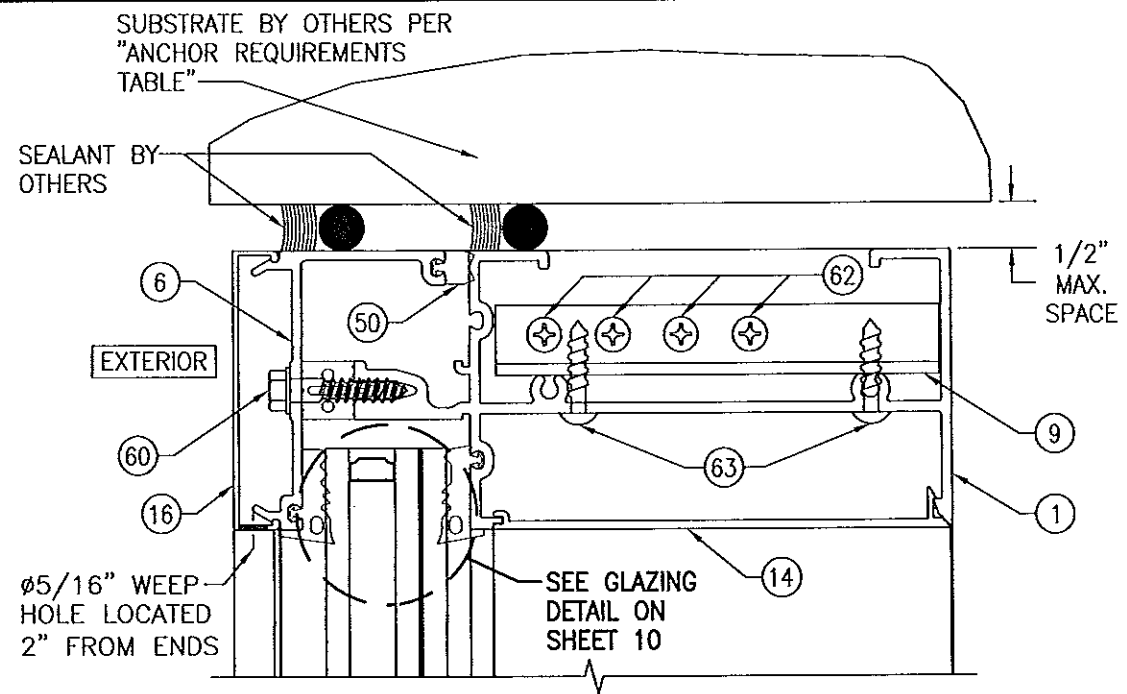
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Florida Building Code  
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NOA# 13-0522-12  
Miami Dade Product Control  
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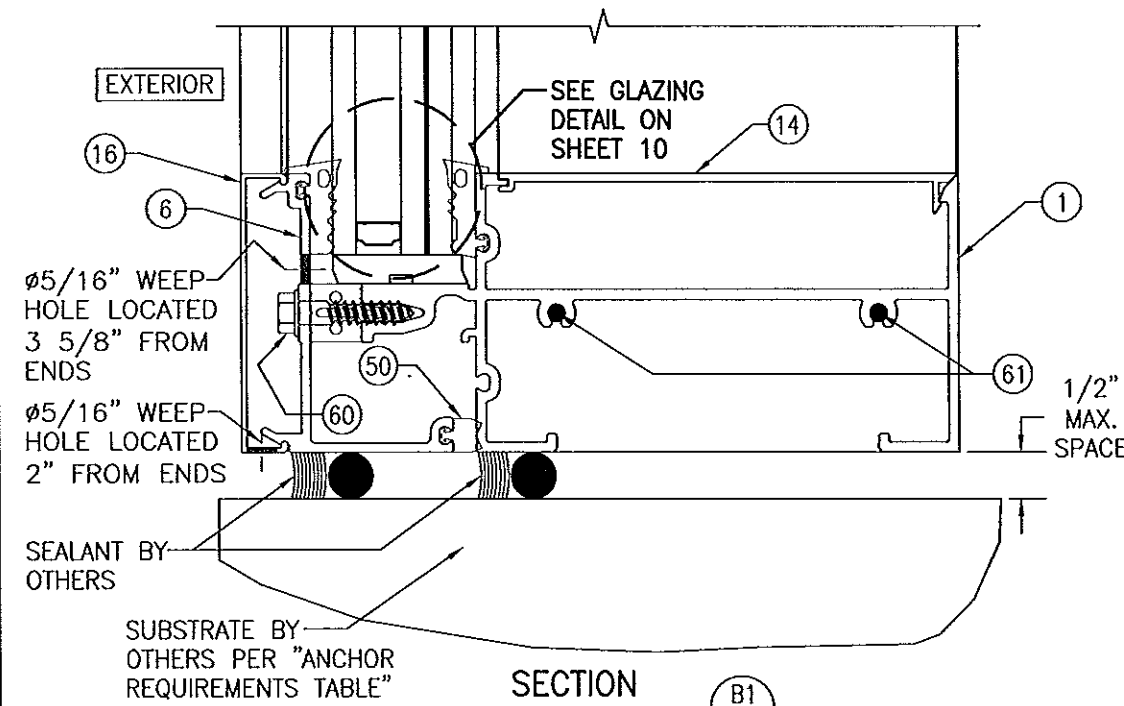
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PLOT: 1=4		DATE: 01/15/13	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555		CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION: APR 02 2013		P.E. NO. 44135	
DRAWING NO. 1847		REV.	
SHEET NO. 8		OF 21	



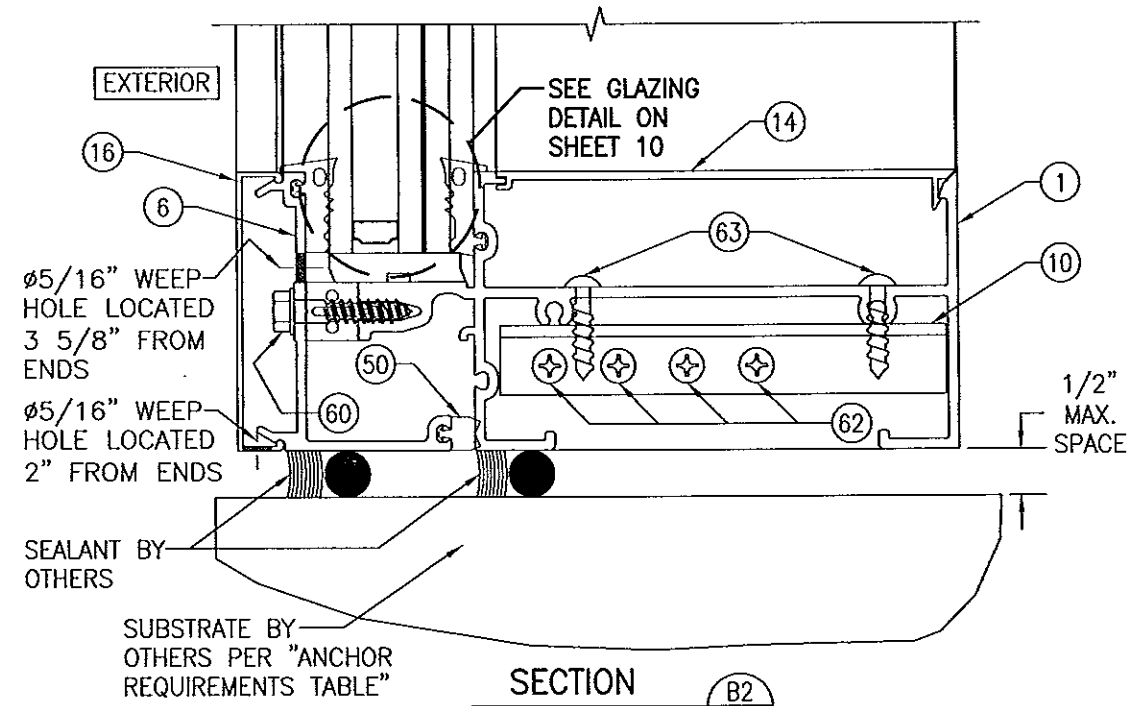
SECTION A1  
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SECTION A2  
SCALE: 1/2 FULL

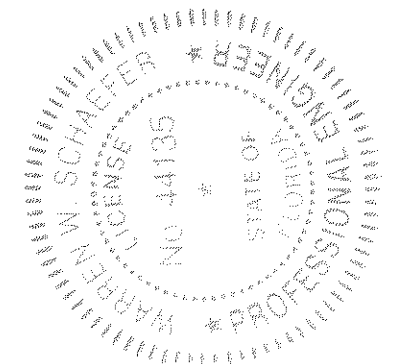


SECTION B1  
SCALE: 1/2 FULL

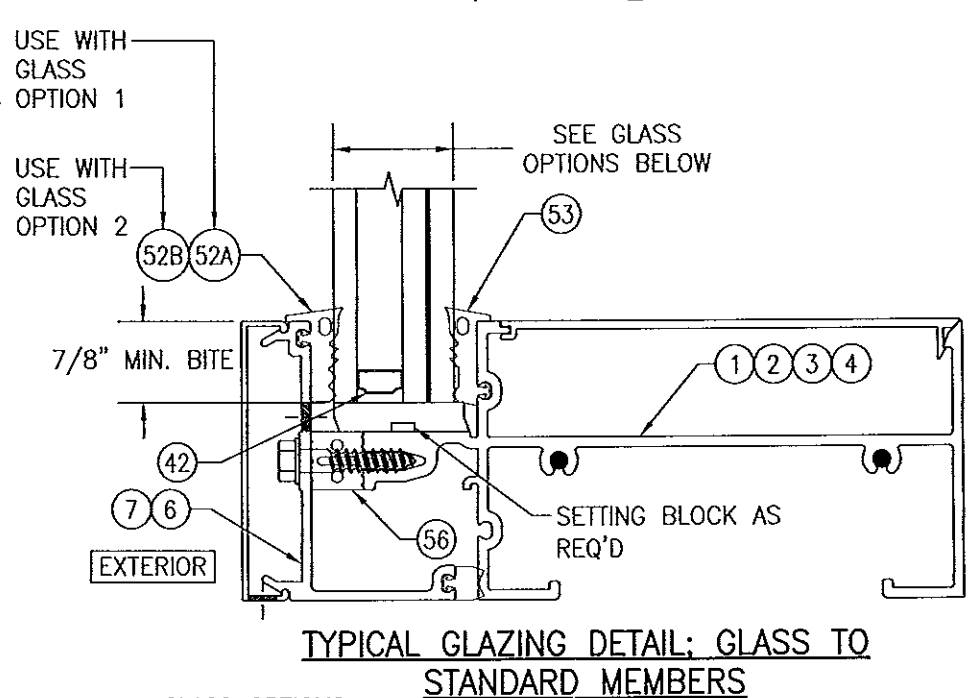
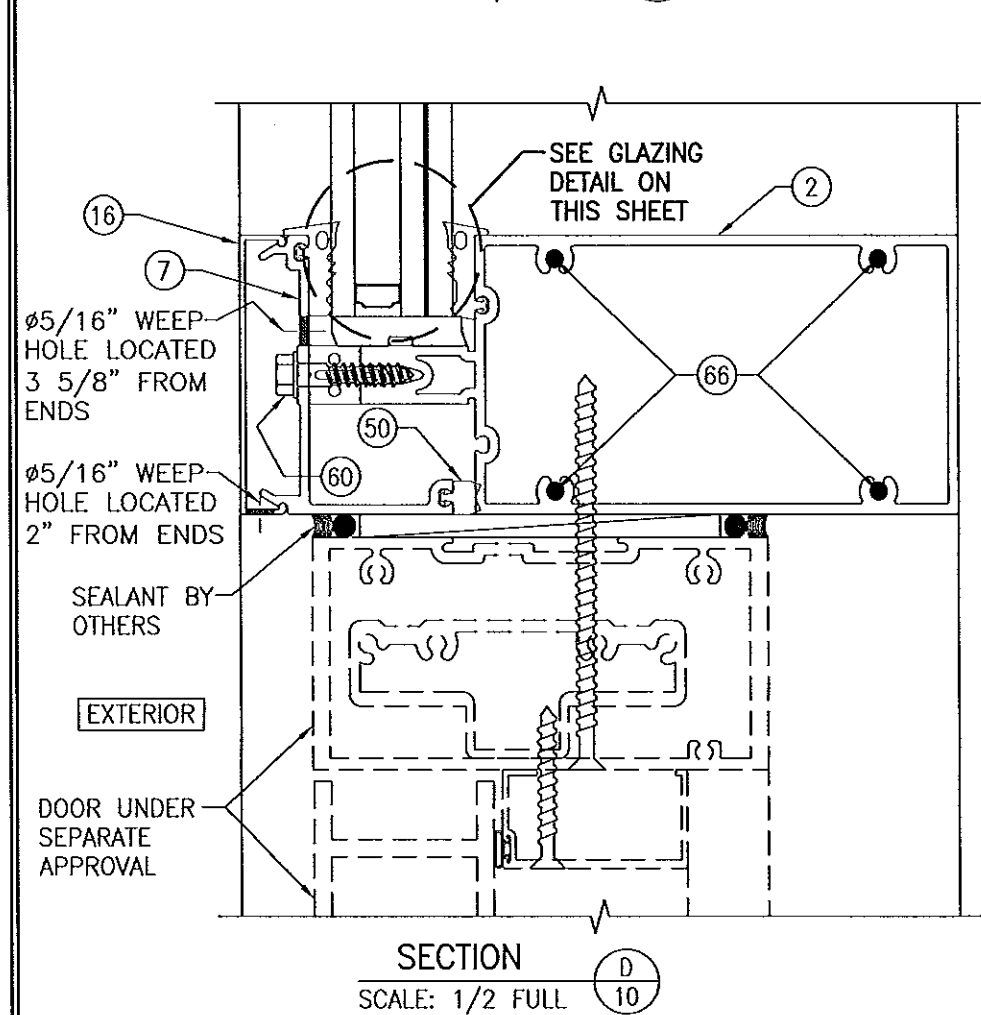
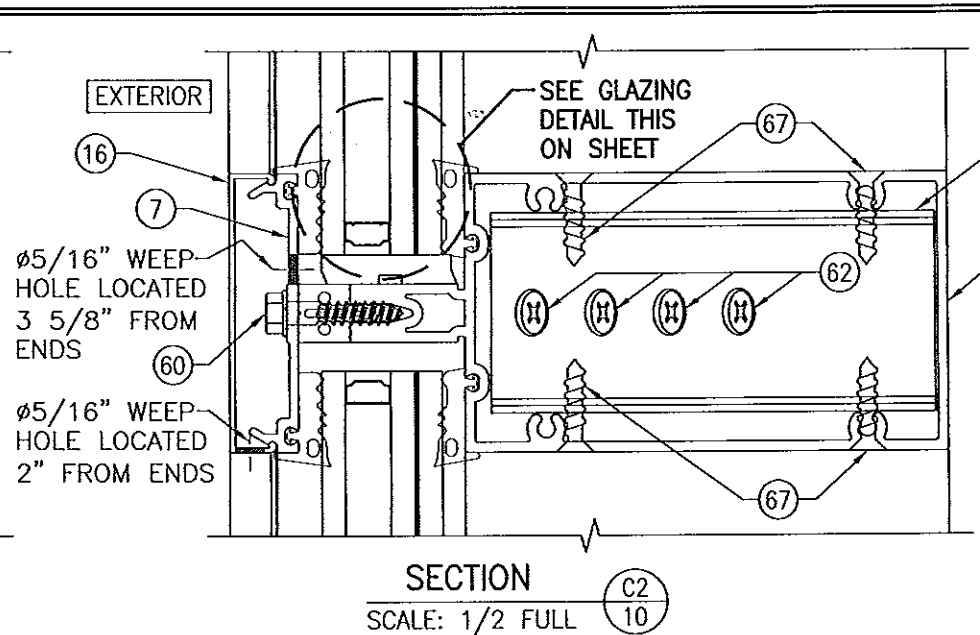
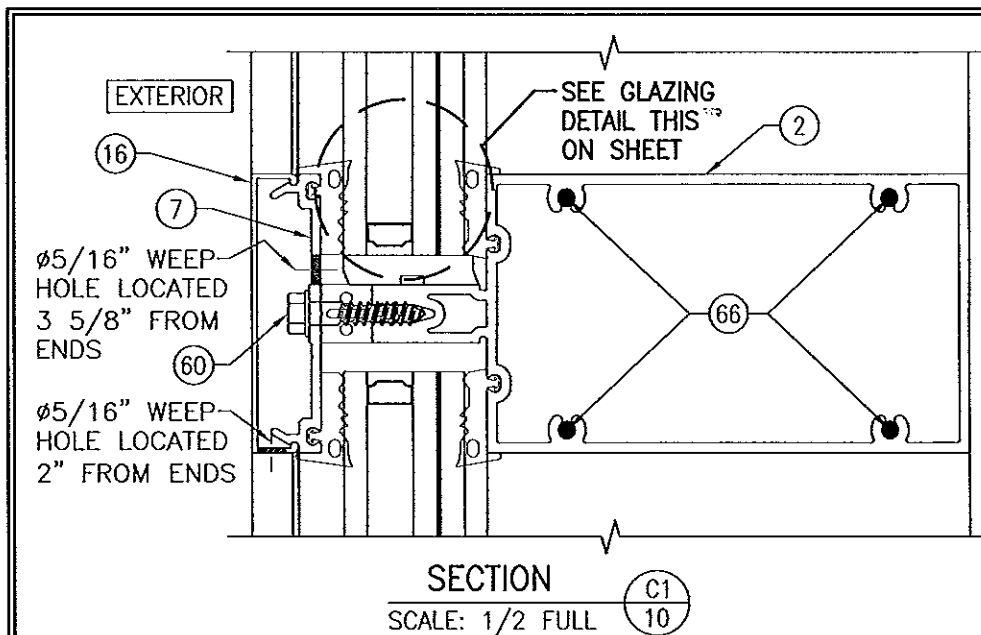


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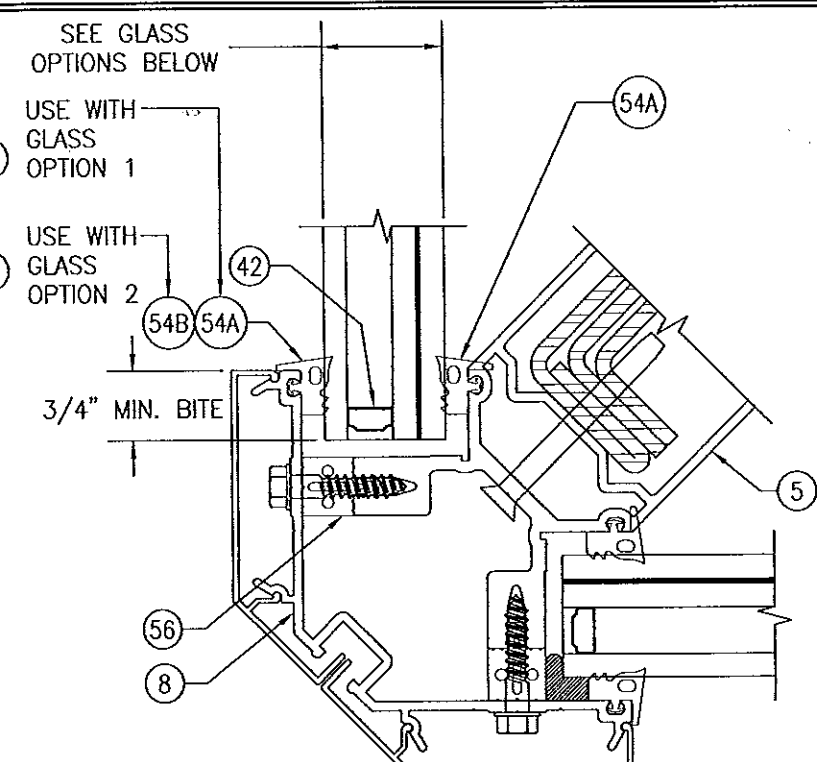
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PLOT: 1=2		DATE: 01/15/13	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION		P.E. NO. 44135	
APR 02 2013		WARREN W. SCHAEFER, P.E.	
DRAWING NO. 1847		REV.	
SHEET NO. 9		OF 21	

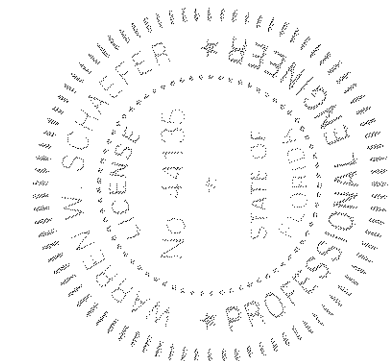


**GLASS OPTIONS:**  
 OPTION 1: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" TEMP. EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./ 0.09" DUPONT SG/1/4" HT. ST. INTERIOR)  
 OPTION 2: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" TEMP. EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./ 0.120" DUPONT SG/1/4" HT. ST. INTERIOR)  
 OPTION 3: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" TEMP. EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.180" DUPONT SG/1/4" HT. ST. INTERIOR)

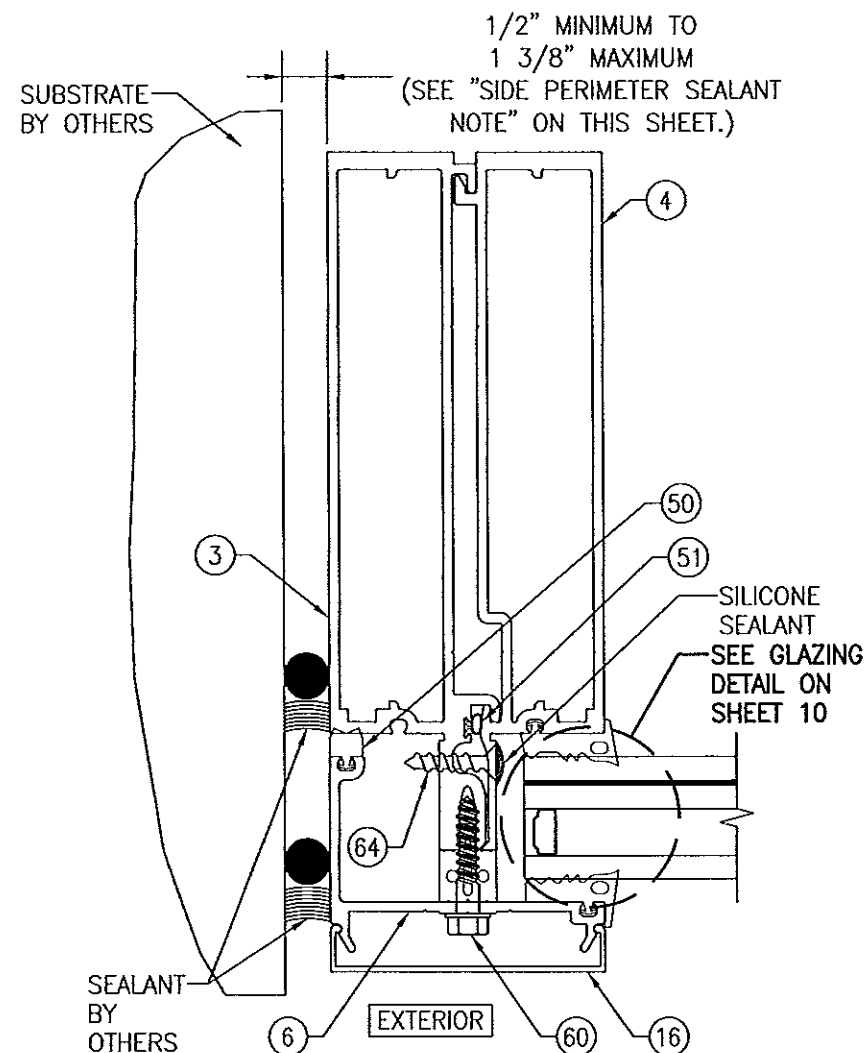


**GLASS OPTIONS:**  
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 OPTION 2: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" TEMP. EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./ 0.120" DUPONT SG/1/4" HT. ST. INTERIOR)  
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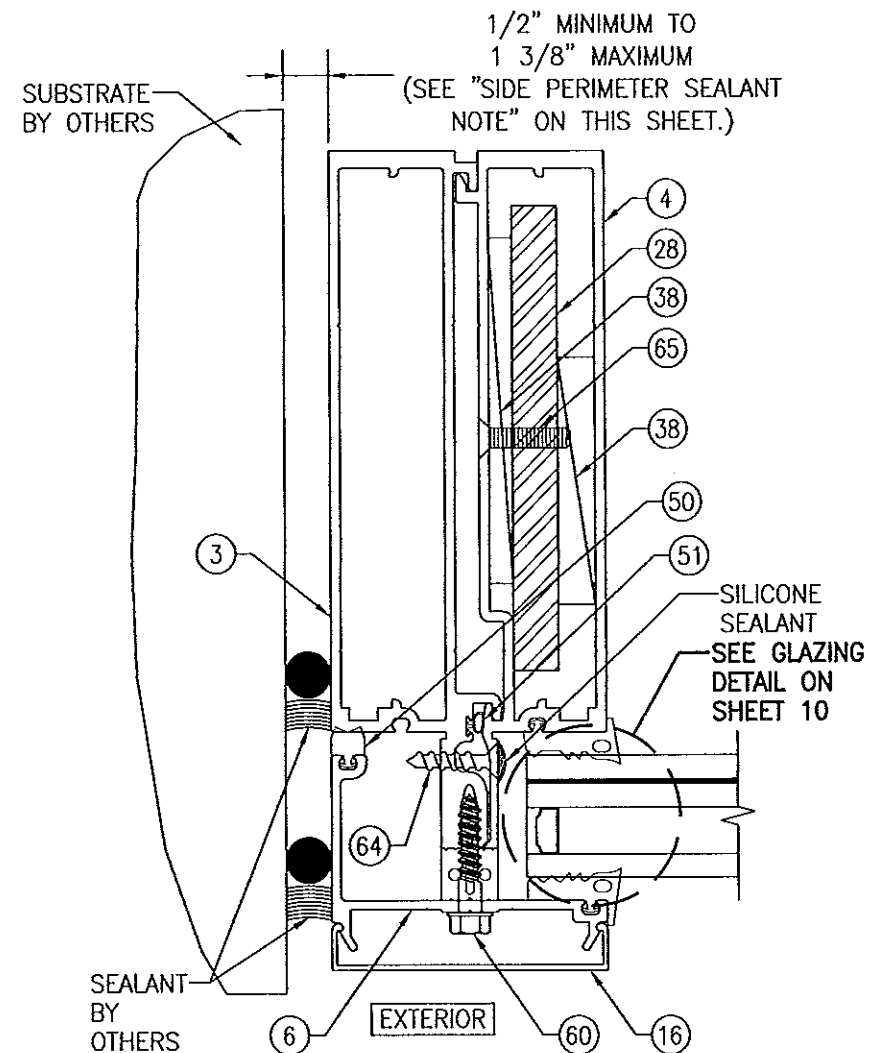
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PLOT: 1-2		DATE: 01/15/13	
NO.	REVISION DESCRIPTION	BY	DATE
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10			
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
MANUFACTURER: KAWNEER COMPANY, INC.			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418			
PHONE: 561-744-3424			
CERTIFICATION: APR 02 2013			
DRAWING NO. 1847			
SHEET NO. 10 OF 21			



**SIDE VERTICAL MEMBER WITH  
REINFORCEMENT "R0" (NO  
REINFORCEMENT)**

$$I = 35.410 \text{ IN}^4$$

$$S = 8.423 \text{ IN}^3$$

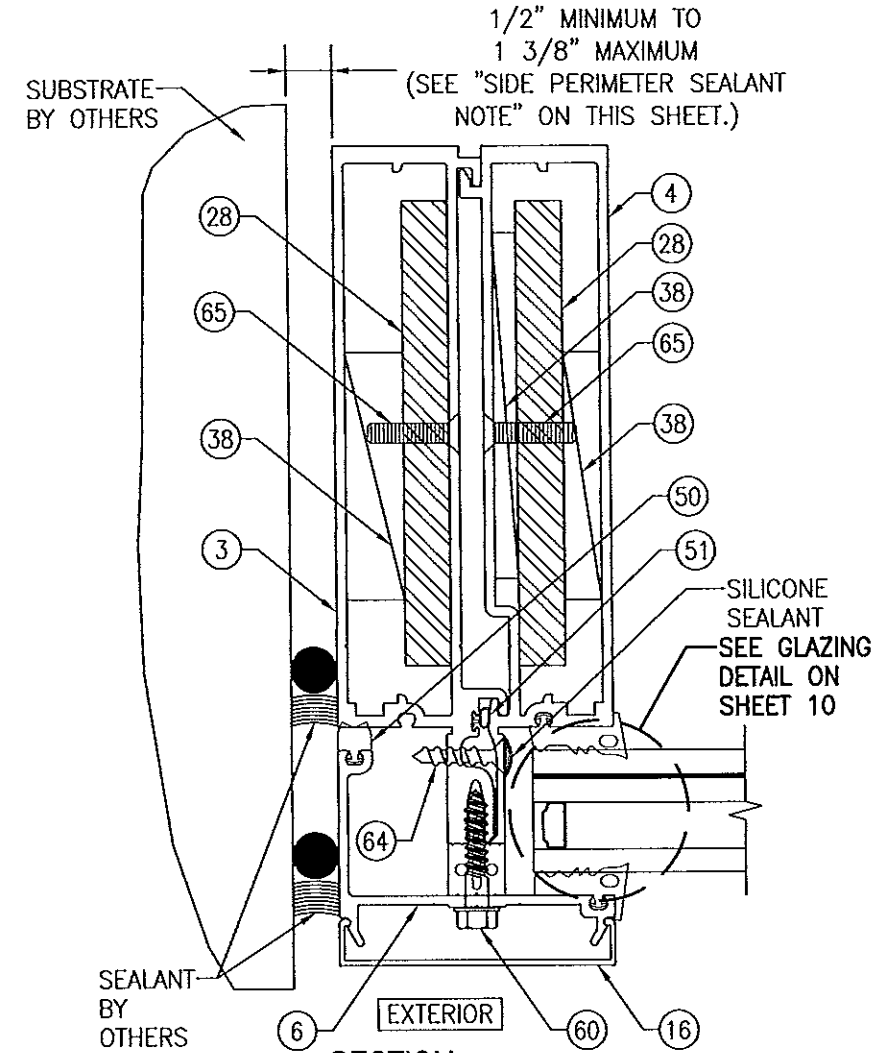


**SIDE VERTICAL MEMBER WITH  
REINFORCEMENT "R1"**

$$I = 53.631 \text{ IN}^4$$

$$S = 11.128 \text{ IN}^3$$

(TRANSFORMED SECTION PROPERTIES IN  
TERMS OF ALUMINUM)  
(REINFORCEMENT MAY BE AT EITHER HALF OF  
VERTICAL MEMBER)



**SIDE VERTICAL MEMBER WITH  
REINFORCEMENT "R2"**

$$I = 64.014 \text{ IN}^4$$

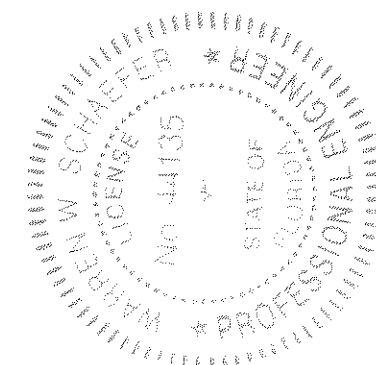
$$S = 12.960 \text{ IN}^3$$

(TRANSFORMED SECTION PROPERTIES IN  
TERMS OF ALUMINUM)

**SIDE PERIMETER SEALANT NOTE:**

THE MINIMUM & MAXIMUM ALLOWABLE SPACE BETWEEN SIDE FRAME MEMBERS & THE OPENING SUBSTRATE OR FINISHES SHALL BE SPECIFIED BY THE ENGINEER OR ARCHITECT OF RECORD FOR EACH JOB BUT SHALL NOT BE LESS THAN 1/2" NOR GREATER THAN 1 3/8". WHEN CONSIDERING TYPE, DEPTH & JOINT SPAN OF SEALANT, THE ENGINEER/ARCHITECT SHALL TAKE INTO CONSIDERATION THE DEFLECTION OF THE JAMB MEMBER THAT WOULD OCCUR WHILE SUPPORTING THE JOB REQUIRED DESIGN WIND PRESSURE. ALSO TO BE CONSIDERED SHALL BE THE MATERIALS & SURFACES TO WHICH THE SEALANT WILL BE APPLIED.

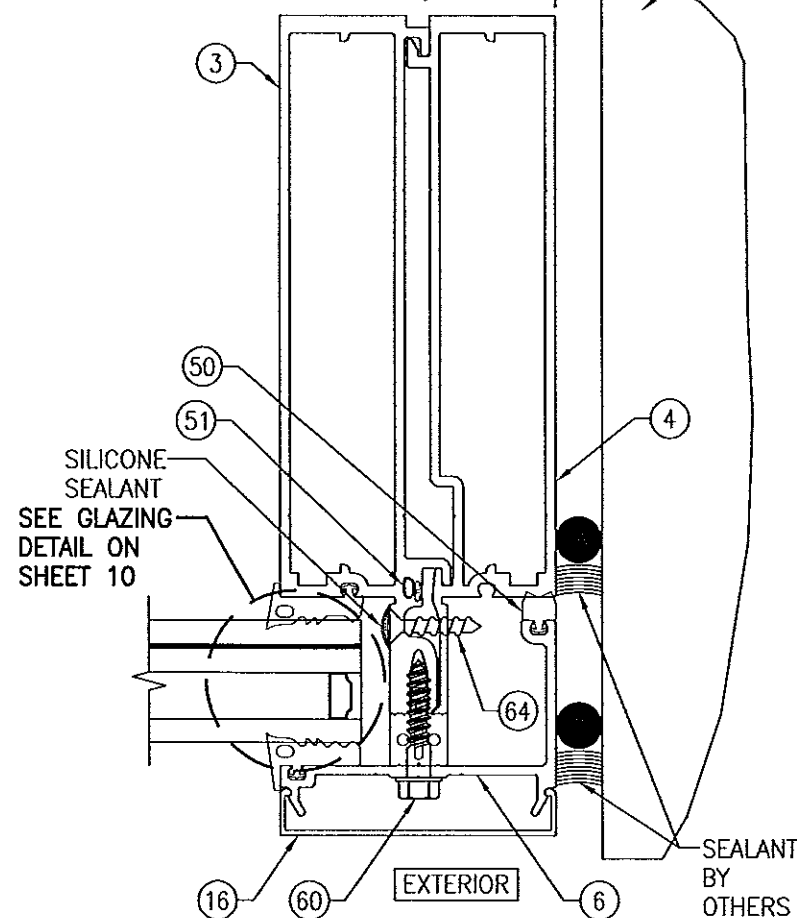
Approved as complying with the  
Florida Building Code  
Date 08/01/2013  
NOAH 13-0522.12  
Miami Dade Product Control  
By [Signature]



DRAWING BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 01/15/13	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: APR 02 2013	WARREN W. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING NO. 1847	REV.		
SHEET NO. 11 OF 21			

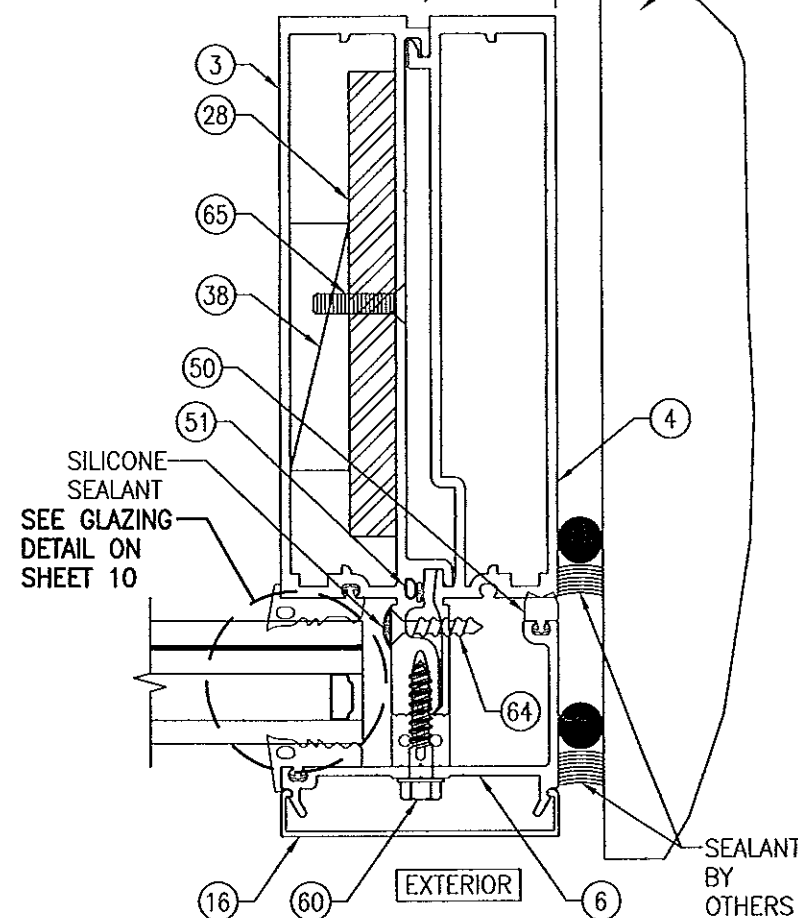


1/2" MINIMUM TO  
1 3/8" MAXIMUM  
(SEE "SIDE PERIMETER SEALANT  
NOTE" ON THIS SHEET.)



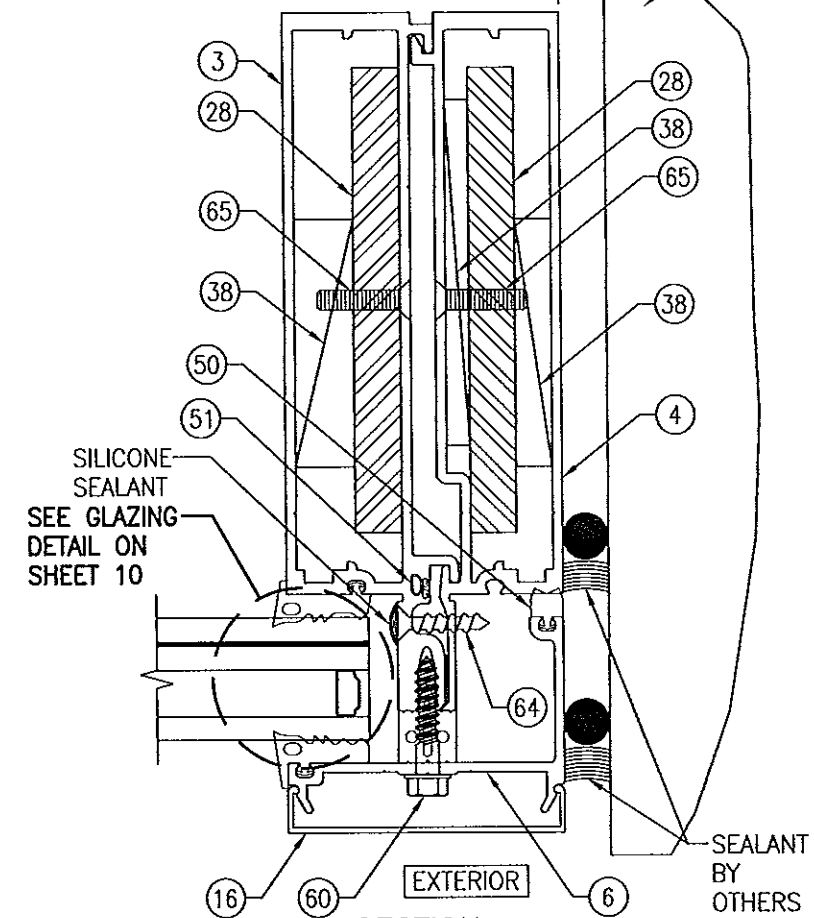
SECTION E4  
SCALE: 1/2 FULL 12  
SIDE VERTICAL MEMBER WITH  
REINFORCEMENT "R0" (NO  
REINFORCEMENT)  
 $I = 35.410 \text{ IN}^4$   
 $S = 8.423 \text{ IN}^3$

1/2" MINIMUM TO  
1 3/8" MAXIMUM  
(SEE "SIDE PERIMETER SEALANT  
NOTE" ON THIS SHEET.)



SECTION E5  
SCALE: 1/2 FULL 12  
SIDE VERTICAL MEMBER WITH  
REINFORCEMENT "R1"  
 $I = 53.631 \text{ IN}^4$   
 $S = 11.128 \text{ IN}^3$   
(TRANSFORMED SECTION PROPERTIES IN  
TERMS OF ALUMINUM)  
(REINFORCEMENT MAY BE AT EITHER HALF OF  
VERTICAL MEMBER)

1/2" MINIMUM TO  
1 3/8" MAXIMUM  
(SEE "SIDE PERIMETER SEALANT  
NOTE" ON THIS SHEET.)

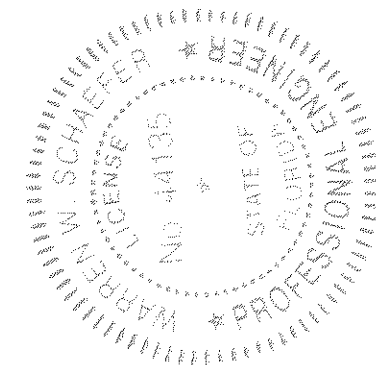


SECTION E6  
SCALE: 1/2 FULL 12  
SIDE VERTICAL MEMBER WITH  
REINFORCEMENT "R2"  
 $I = 64.014 \text{ IN}^4$   
 $S = 12.960 \text{ IN}^3$   
(TRANSFORMED SECTION PROPERTIES IN  
TERMS OF ALUMINUM)

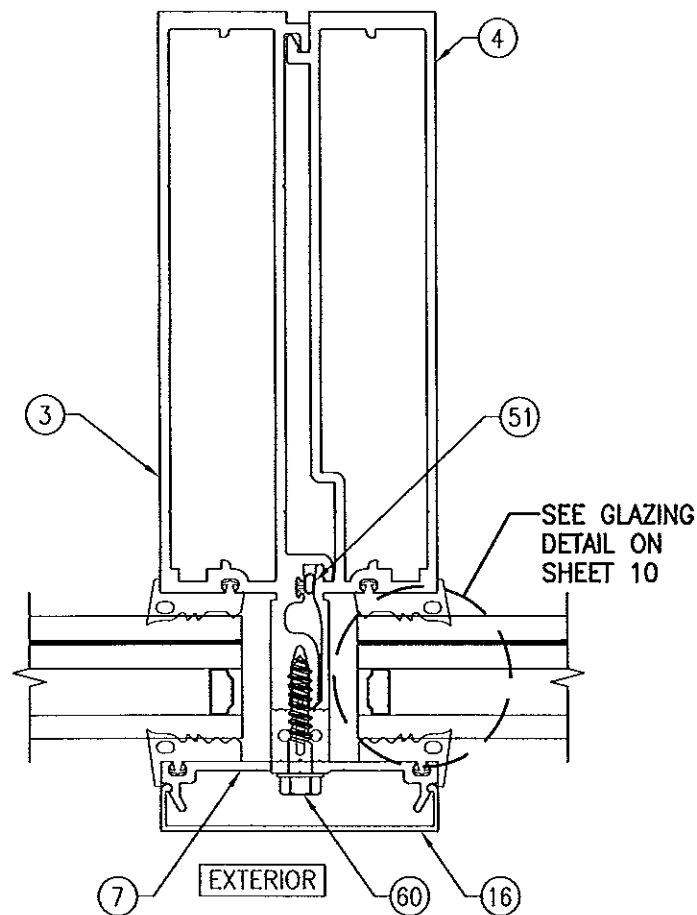
**SIDE PERIMETER SEALANT NOTE:**

THE MINIMUM & MAXIMUM ALLOWABLE SPACE BETWEEN SIDE FRAME MEMBERS & THE OPENING SUBSTRATE OR FINISHES SHALL BE SPECIFIED BY THE ENGINEER OR ARCHITECT OF RECORD FOR EACH JOB BUT SHALL NOT BE LESS THAN 1/2" NOR GREATER THAN 1 3/8". WHEN CONSIDERING TYPE, DEPTH & JOINT SPAN OF SEALANT, THE ENGINEER/ARCHITECT SHALL TAKE INTO CONSIDERATION THE DEFLECTION OF THE JAMB MEMBER THAT WOULD OCCUR WHILE SUPPORTING THE JOB REQUIRED DESIGN WIND PRESSURE. ALSO TO BE CONSIDERED SHALL BE THE MATERIALS & SURFACES TO WHICH THE SEALANT WILL BE APPLIED.

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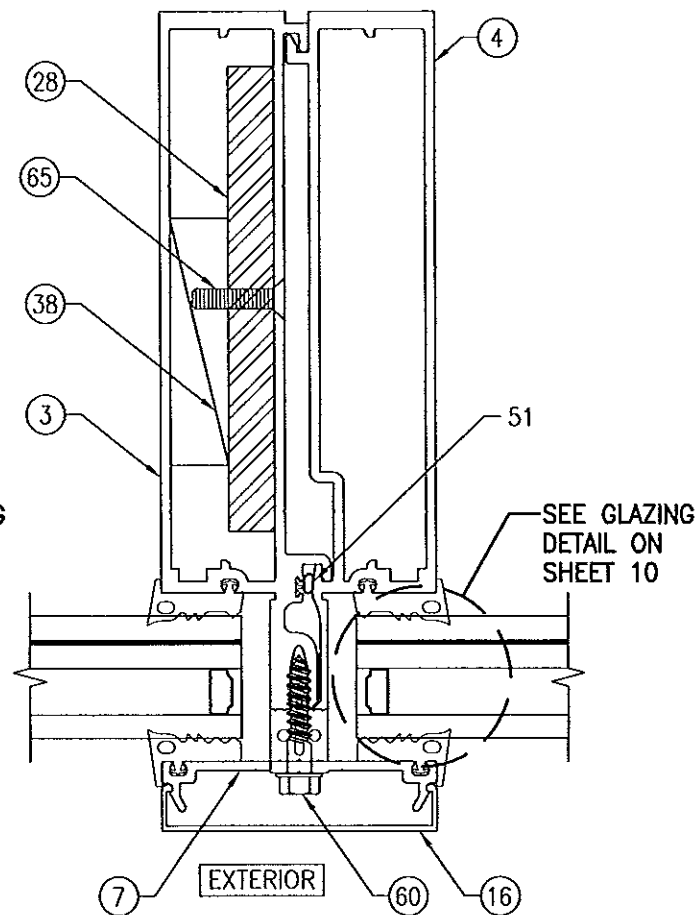
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 01/15/13	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555		CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION: APR 02 2013		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1847		REV.	
SHEET NO. 12		OF 21	



SECTION F1  
SCALE: 1/2 FULL  
INTERMEDIATE VERTICAL MEMBER  
WITH REINFORCEMENT "R0" (NO  
REINFORCEMENT)

$$I = 33.770 \text{ IN}^4$$

$$S = 7.820 \text{ IN}^3$$

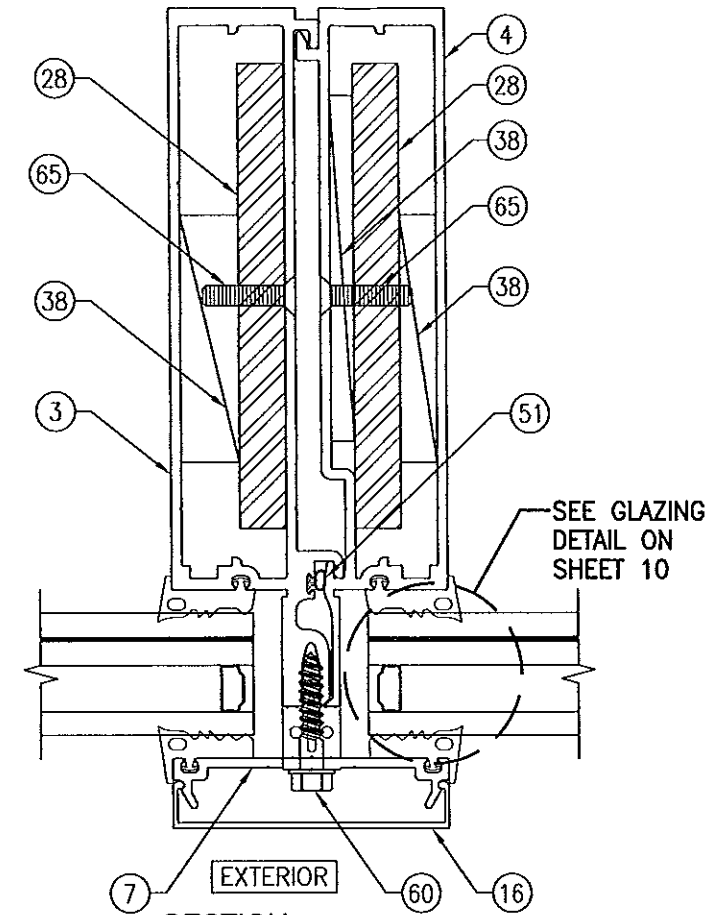


SECTION F2  
SCALE: 1/2 FULL  
INTERMEDIATE VERTICAL MEMBER  
WITH REINFORCEMENT "R1"

$$I = 51.258 \text{ IN}^4$$

$$S = 10.513 \text{ IN}^3$$

(TRANSFORMED SECTION PROPERTIES IN  
TERMS OF ALUMINUM)  
(REINFORCEMENT MAY BE PLACED AT EITHER  
INTERMEDIATE FRAME MEMBER HALF)

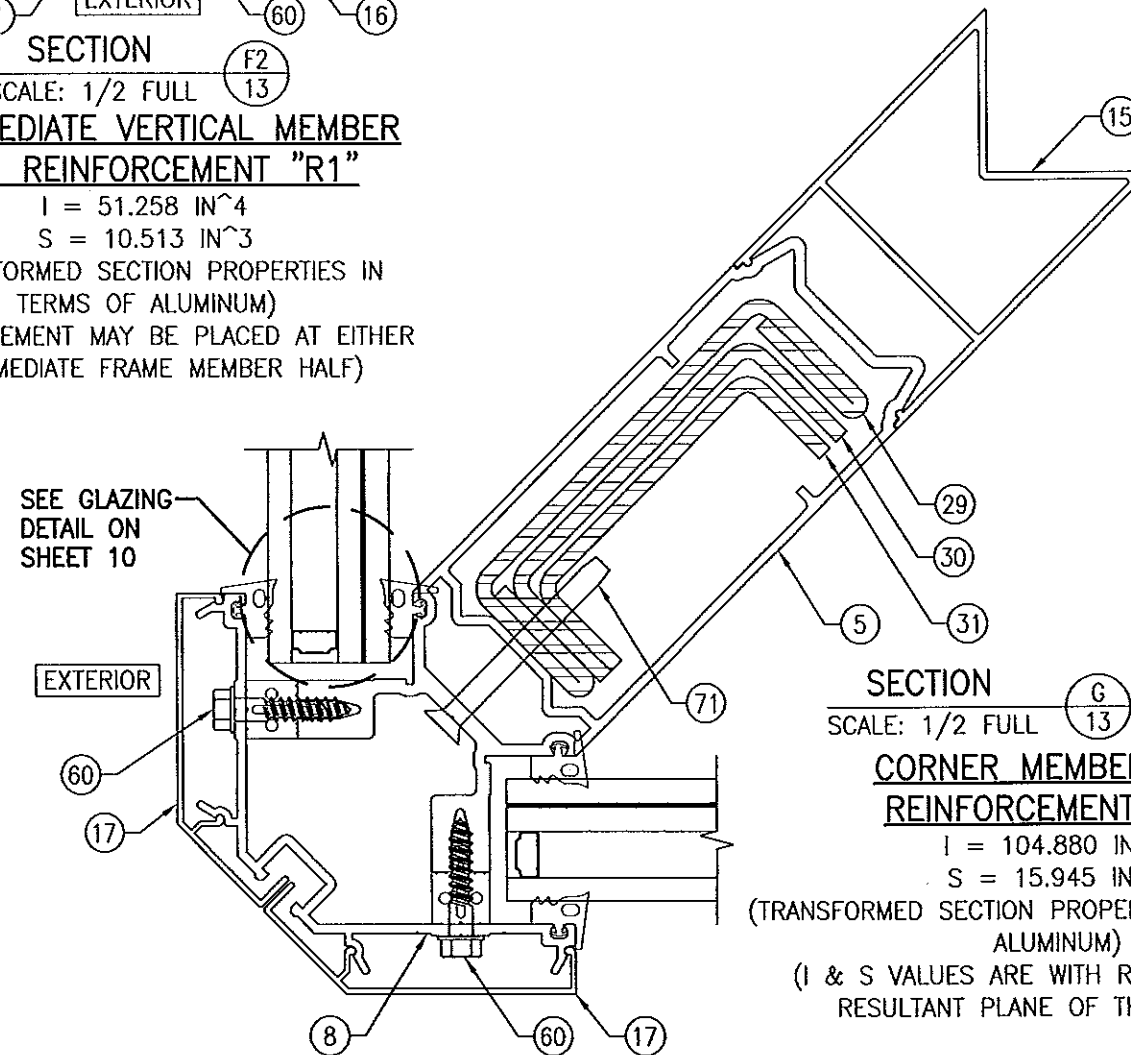


SECTION F3  
SCALE: 1/2 FULL  
INTERMEDIATE VERTICAL MEMBER  
WITH REINFORCEMENT "R2"

$$I = 61.484 \text{ IN}^4$$

$$S = 12.343 \text{ IN}^3$$

(TRANSFORMED SECTION PROPERTIES IN  
TERMS OF ALUMINUM)



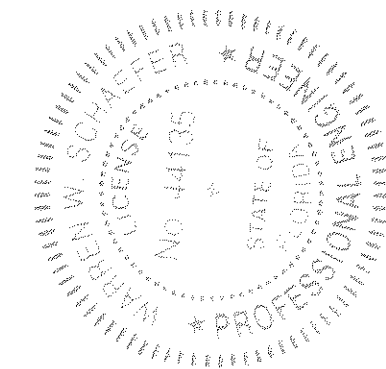
SECTION G  
SCALE: 1/2 FULL  
CORNER MEMBER WITH  
REINFORCEMENT "R3"

$$I = 104.880 \text{ IN}^4$$

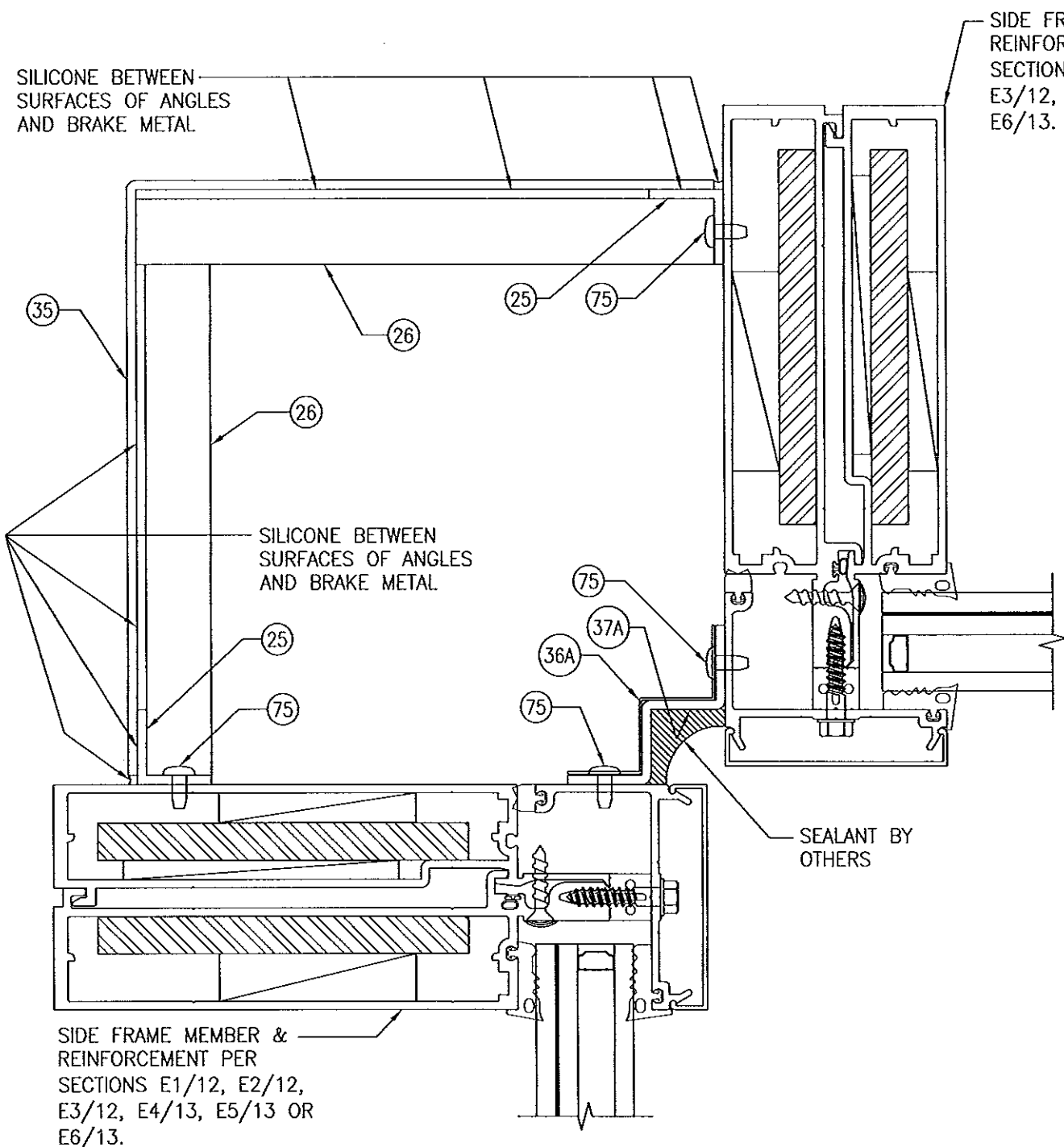
$$S = 15.945 \text{ IN}^3$$

(TRANSFORMED SECTION PROPERTIES IN TERMS OF  
ALUMINUM)  
(I & S VALUES ARE WITH RESPECT TO THE  
RESULTANT PLANE OF THE MEMBER)

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Date 08/01/13  
NOAH 13-0522.12  
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By [Signature]

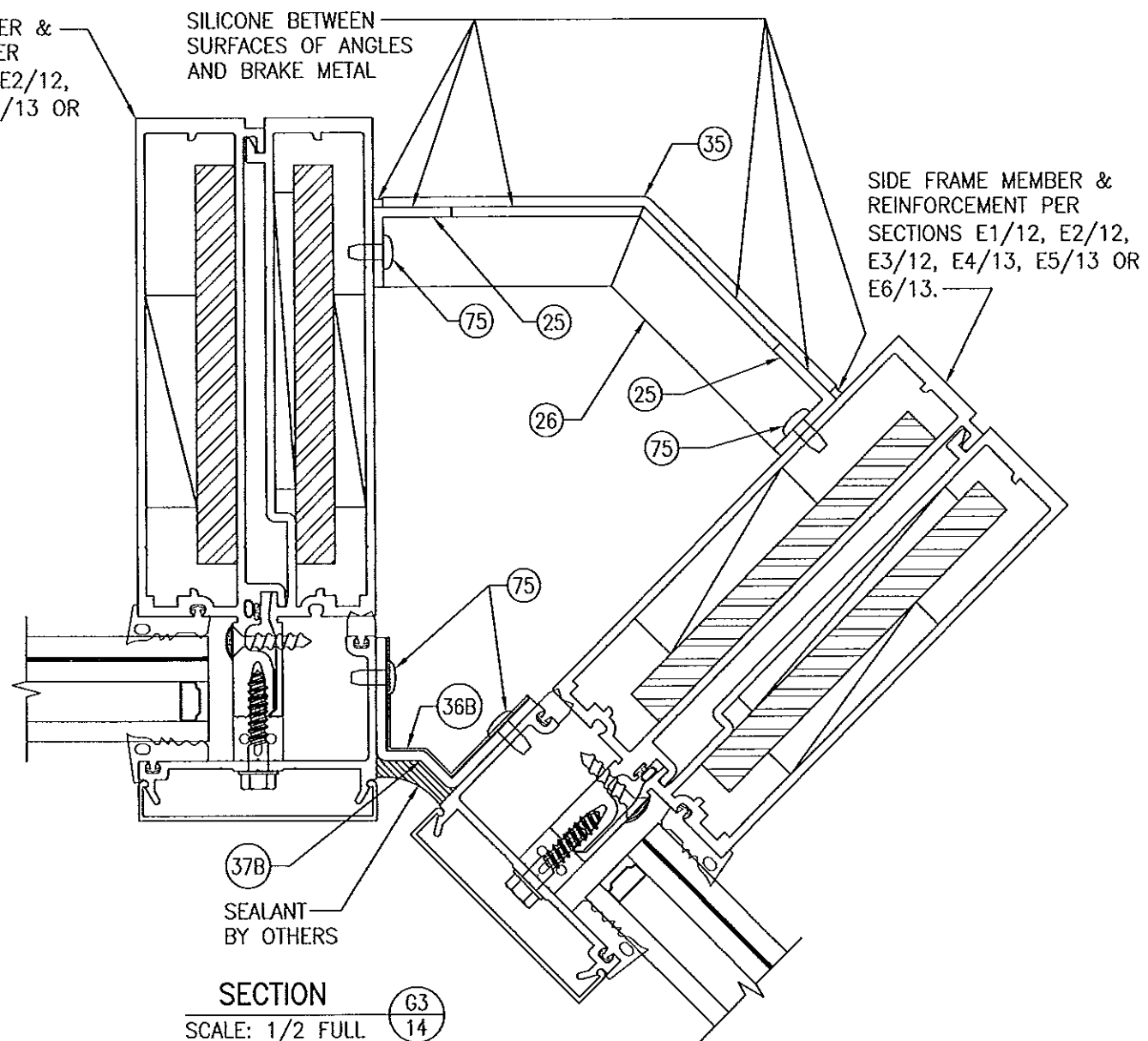


CERTIFICATION APR 02 2013	DRAWING NO. 1847		REV.		
	SHEET NO. 13 OF 21				
	WARREN W. SCHAEFER, P.E. P.E. NO. 44135				
	DRAWING TITLE 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL				
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555			
NO.		REVISION DESCRIPTION		BY	DATE



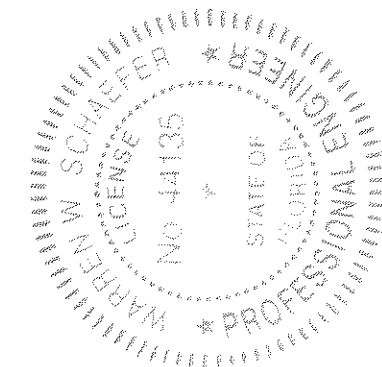
90 DEG. INTERIOR CORNER MEMBER WITH REINFORCEMENT "R0", "R1" OR "R3"

SIDE FRAME MEMBER & REINFORCEMENT PER SECTIONS E1/12, E2/12, E3/12, E4/13, E5/13 OR E6/13.

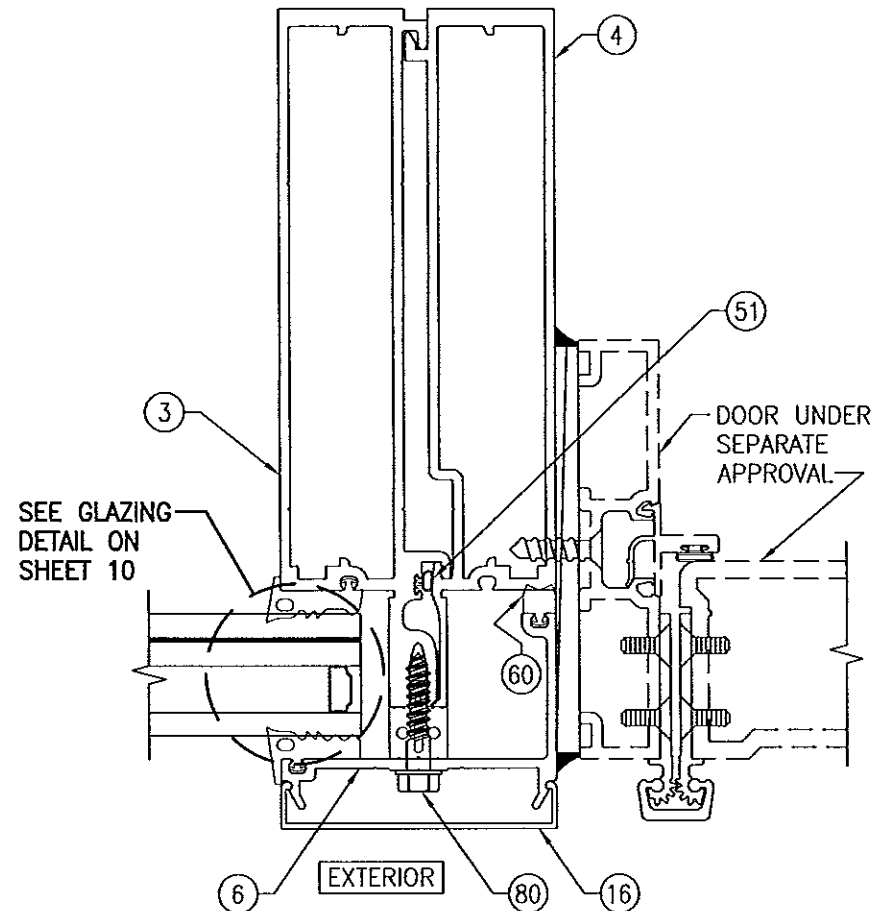


135 DEG. INTERIOR CORNER MEMBER WITH REINFORCEMENT "R0", "R1" OR "R3"

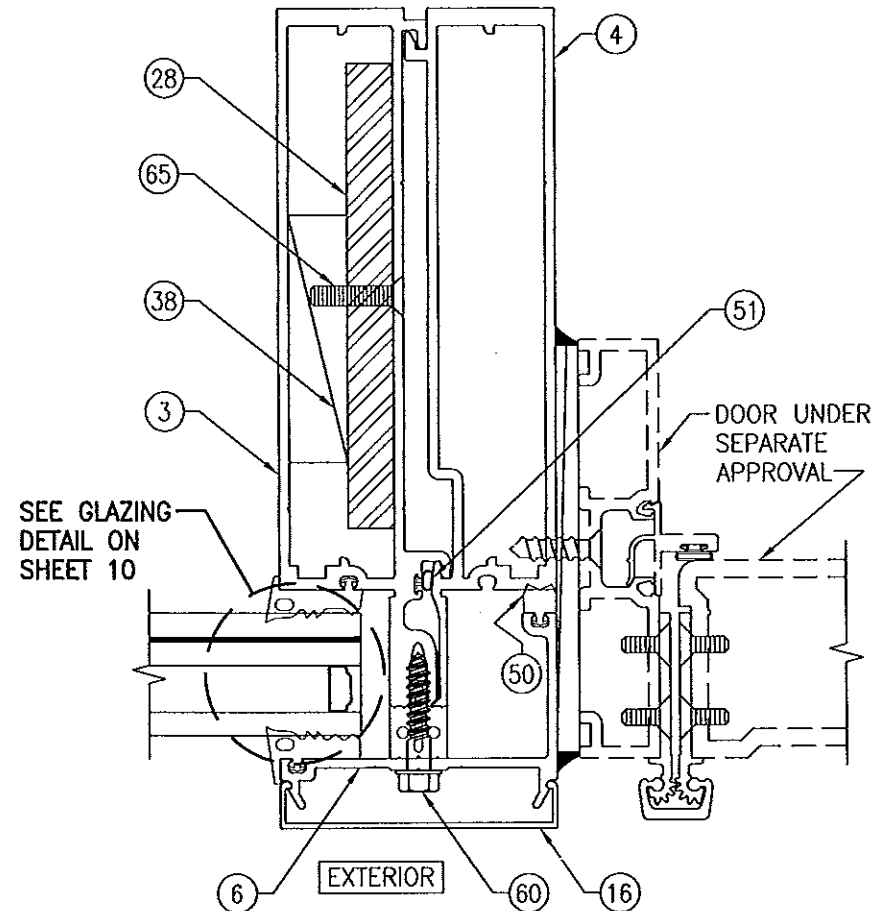
Approved as complying with the  
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Date 08/01/2013  
NOAH 13-0522.12  
Miami Dade Product Control  
by [Signature]



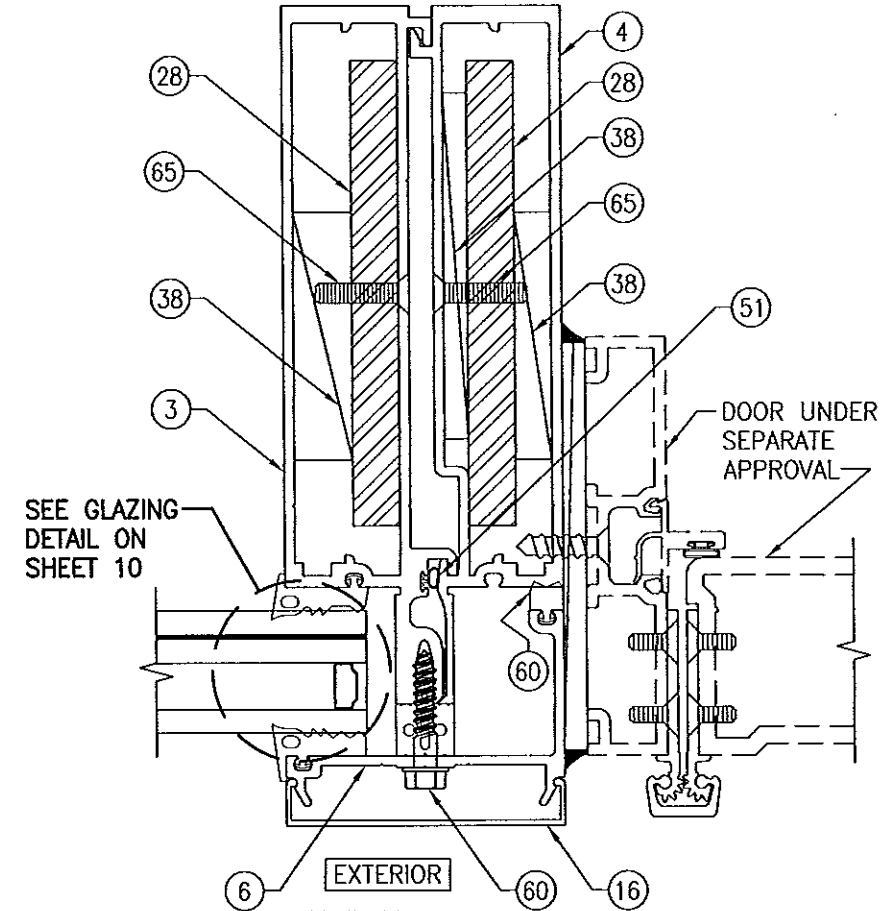
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 01/15/13	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: APR 02 2013		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1847		REV.	
SHEET NO. 14 OF 21			



SECTION H1  
SCALE: 1/2 FULL  
INTERMEDIATE VERTICAL MEMBER  
WITH DOOR & REINFORCEMENT "R0"  
(NO REINFORCEMENT)  
 $I = 33.770 \text{ IN}^4$   
 $S = 7.820 \text{ IN}^3$

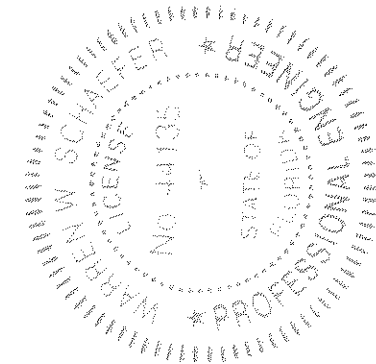


SECTION H2  
SCALE: 1/2 FULL  
INTERMEDIATE VERTICAL MEMBER  
WITH DOOR & REINFORCEMENT "R1"  
 $I = 51.258 \text{ IN}^4$   
 $S = 10.513 \text{ IN}^3$   
(TRANSFORMED SECTION PROPERTIES IN TERMS  
OF ALUMINUM)  
(REINFORCEMENT MAY BE PLACED AT EITHER  
INTERMEDIATE FRAME MEMBER HALF)

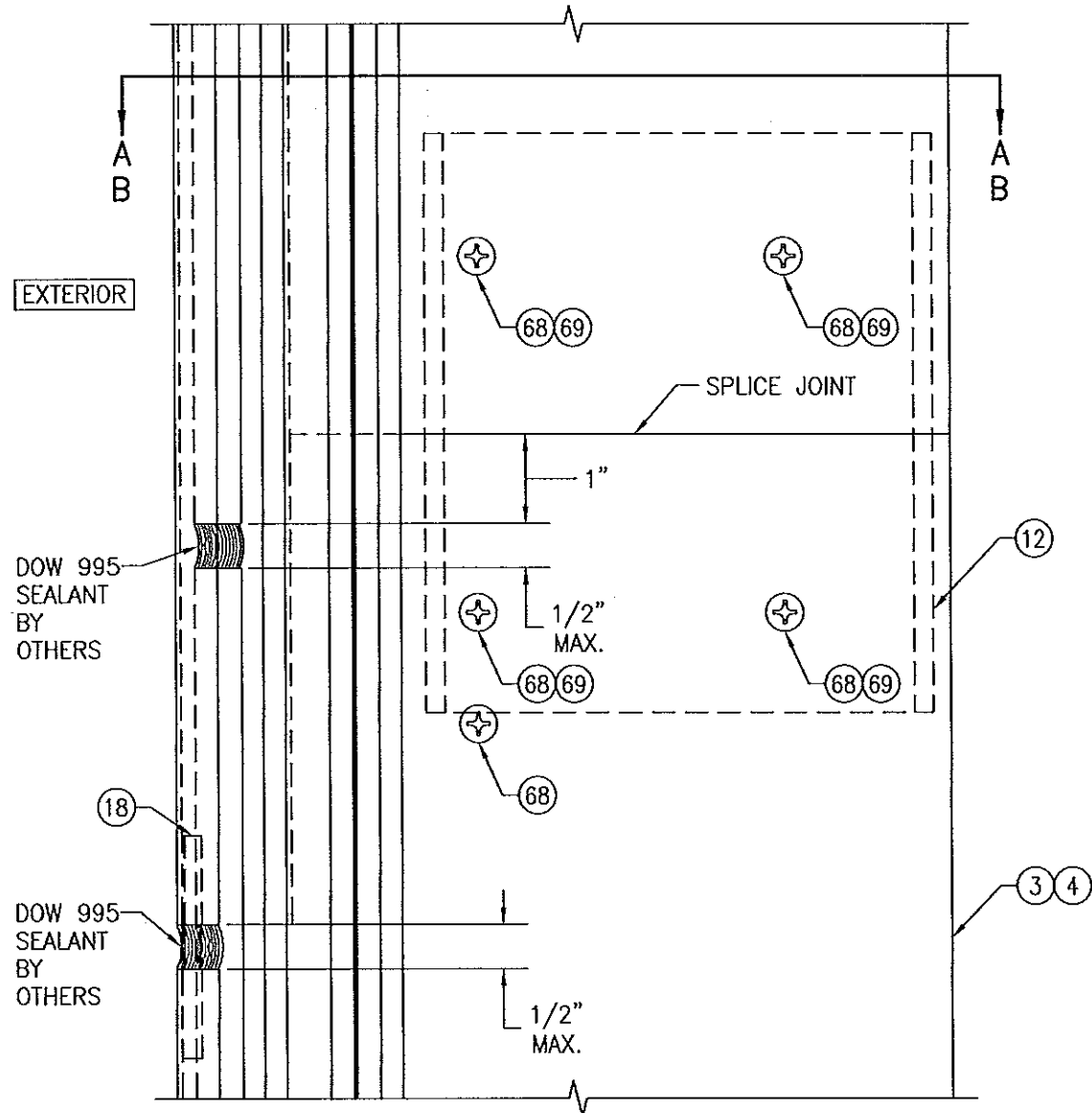


SECTION H3  
SCALE: 1/2 FULL  
INTERMEDIATE VERTICAL MEMBER WITH  
DOOR & REINFORCEMENT "R2"  
 $I = 61.484 \text{ IN}^4$   
 $S = 12.343 \text{ IN}^3$   
(TRANSFORMED SECTION PROPERTIES IN TERMS  
OF ALUMINUM)

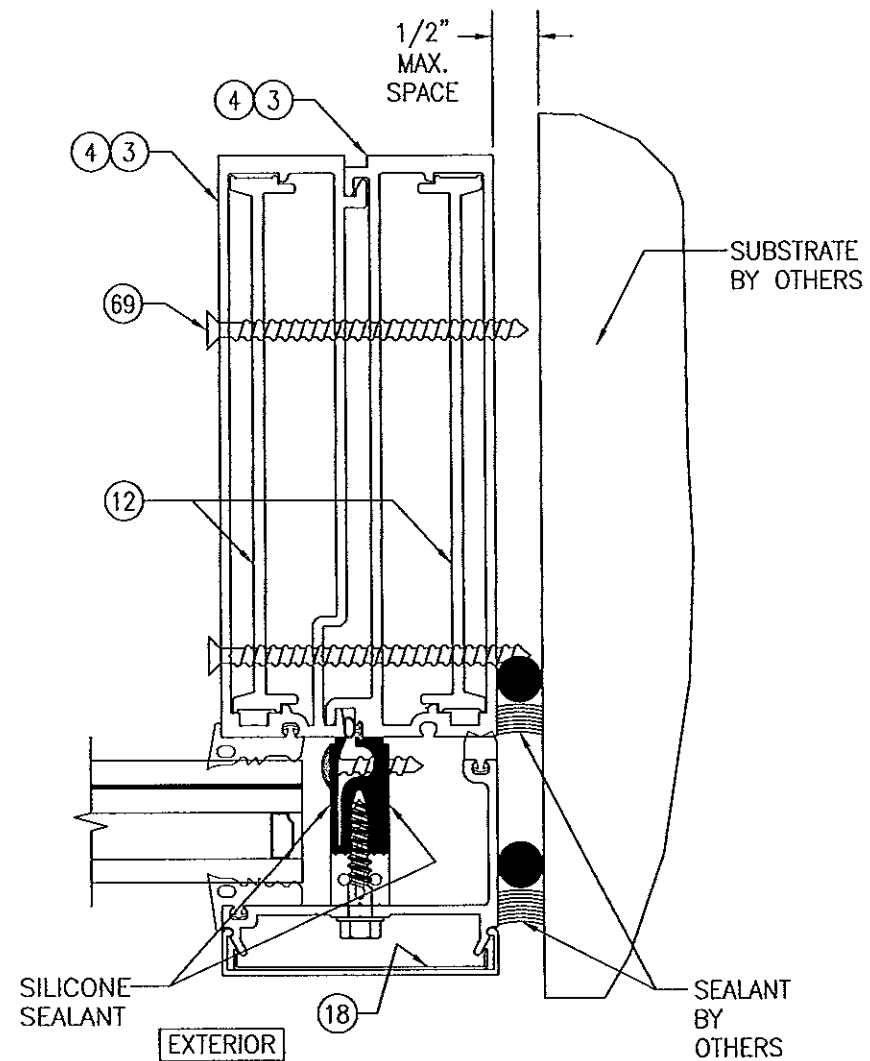
Approved as complying with the  
Florida Building Code  
Date 08/01/2013  
NOA# 13-0522.12  
Miami Dade Product Control  
By [Signature]



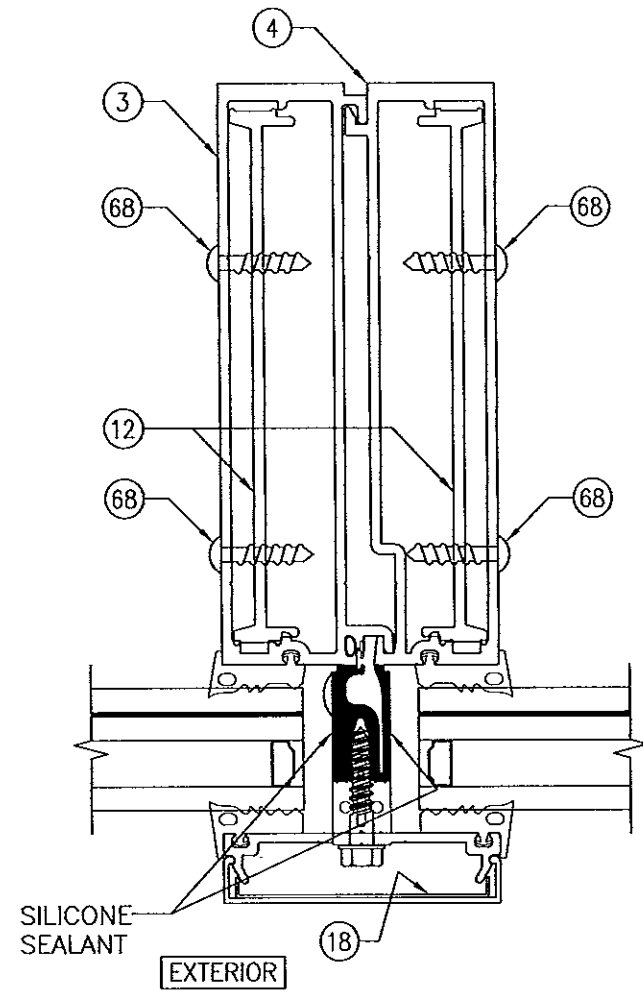
DRAWING TITLE	DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
	PLOT: 1=2		DATE: 01/15/13	
	DATE	BY	REVISION	DESCRIPTION
8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL				
	MANUFACTURER			
	KAWNEER COMPANY, INC.			
	555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555			
CONSULTANTS				
	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
	7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION				
	APR 02 2013			
	WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO.		REV.		
1847				
SHEET NO.				
15		OF 21		



**SPlice JOINT DETAIL**  
(SIDE & INTERMEDIATE VERTICAL FRAME MEMBER)



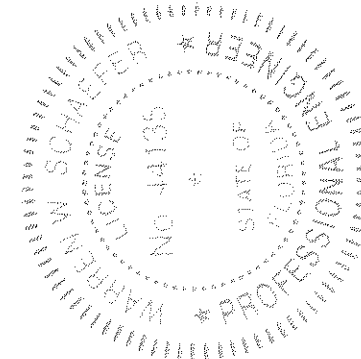
**SECTION A-A**  
(SIDE MEMBER)  
(FOR DETAIL NOT SHOWN, SEE SECTION E1/11)



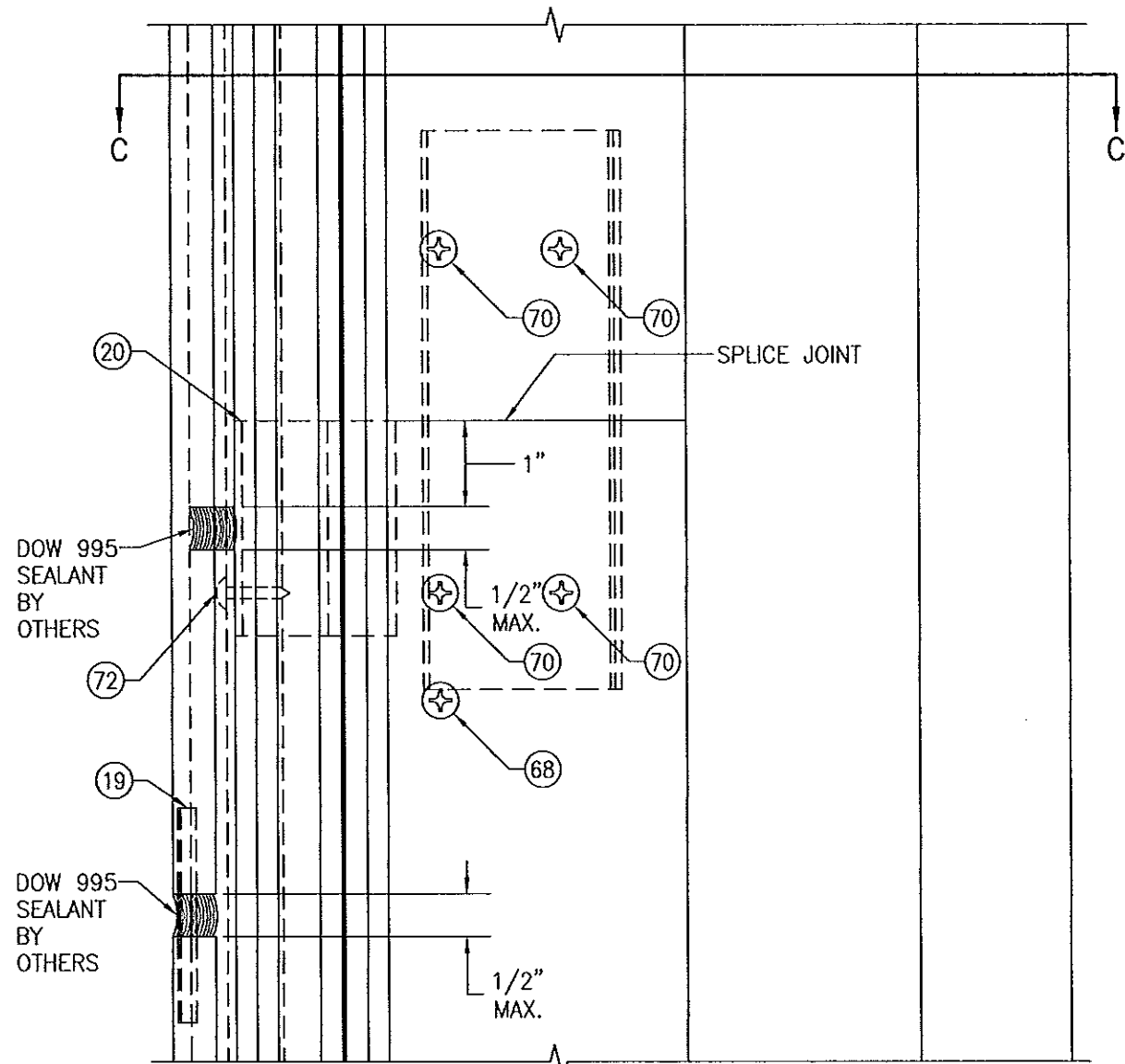
**SECTION B-B**  
(INTERMEDIATE MEMBER)  
(FOR DETAIL NOT SHOWN, SEE SECTION F1/13)

Approved as complying with the  
Florida Building Code  
Date 08/02/2013  
NOA# 13-0522.12  
Miami Code Product Control

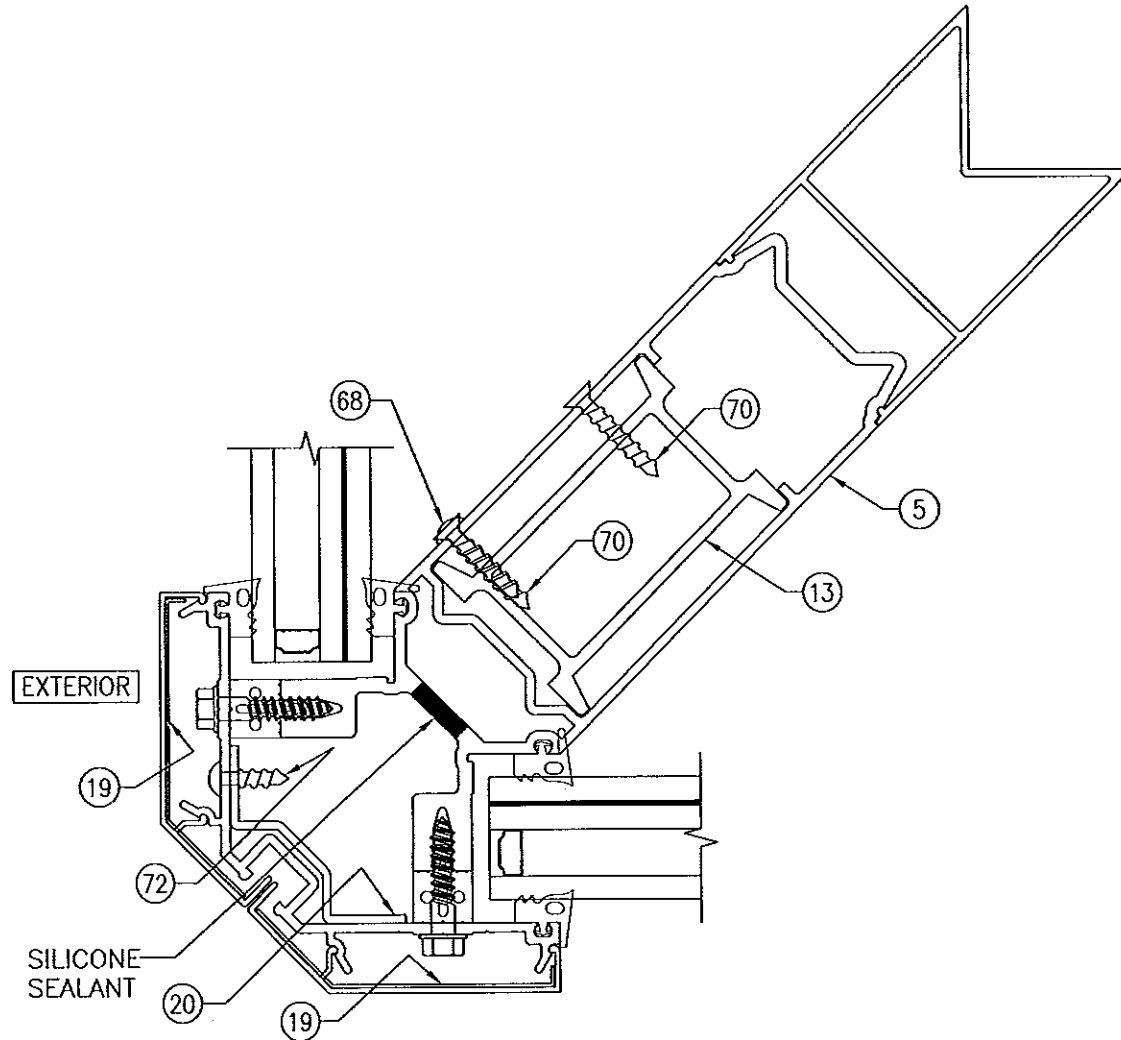
By [Signature]



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 01/15/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: APR 02 2013		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1847		REV.	
SHEET NO. 16		OF 21	

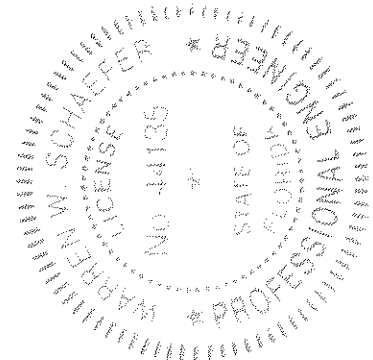


**SPLICE JOINT DETAIL**  
(CORNER MEMBER)

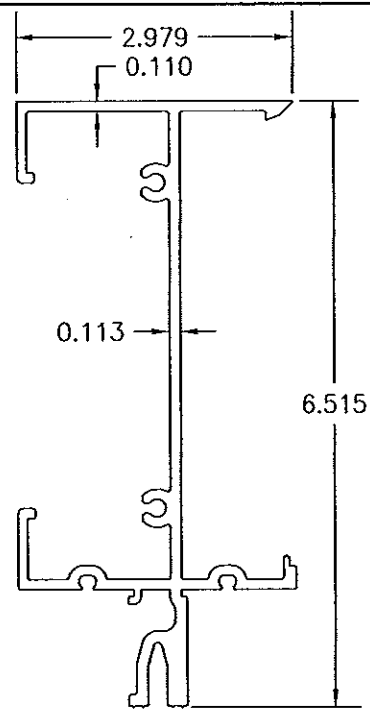


**SECTION C-C**  
(FOR DETAIL NOT SHOWN, SEE SECTION G1/13)

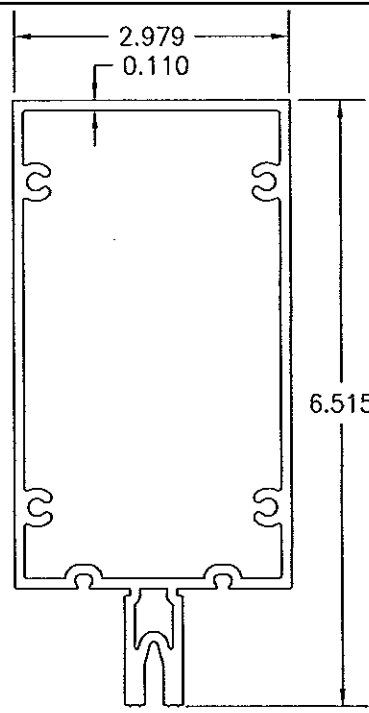
Approved as complying with the  
Florida Building Code  
Date 08/01/2013  
NOAH 13-0522-12  
Miami Dade Product Control  
By [Signature]



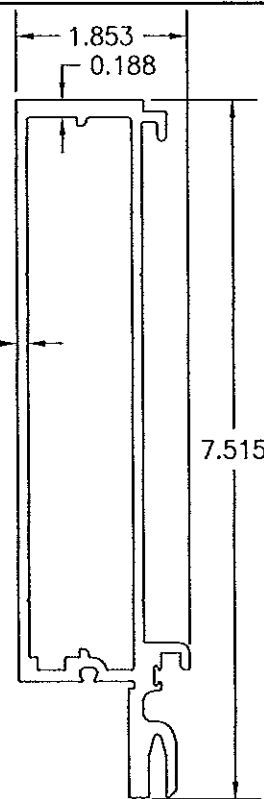
DRAWING TITLE <b>8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL</b>	DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
	PLOT: 1-2		DATE: 01/15/13	
	NO.		DATE	
	REVISION DESCRIPTION		BY	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER <b>KAWNEER COMPANY, INC.</b> 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555		P.E. <b>WARREN W. SCHAEFER, P.E.</b> P.E. NO. 44135	
	CERTIFICATION <b>APR 02 2013</b>		DRAWING NO. <b>1847</b>	
			SHEET NO. <b>17 OF 21</b>	
			REV.	



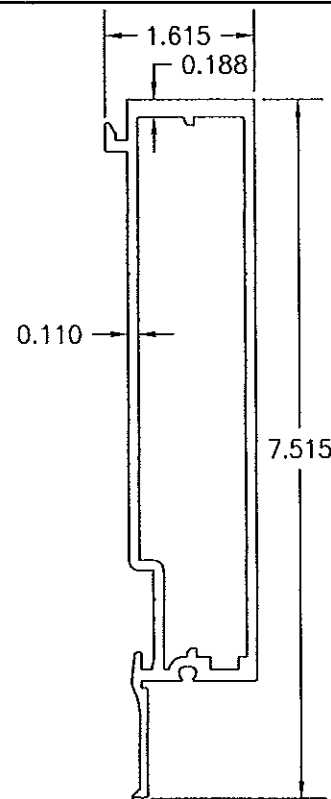
① **HEAD & SILL MEMBER**  
 $I = 10.596 \text{ IN}^4$   
 $S = 3.172 \text{ IN}^3$



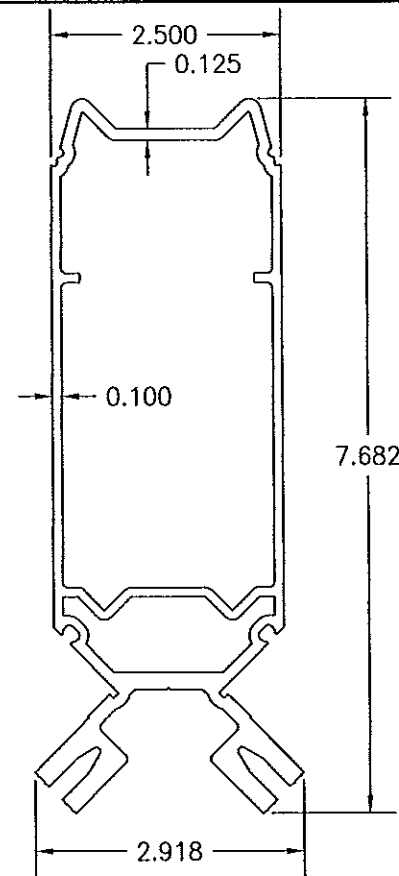
② **INTERMEDIATE HORIZONTAL MEMBER**  
 $I = 11.969 \text{ IN}^4$   
 $S = 3.668 \text{ IN}^3$



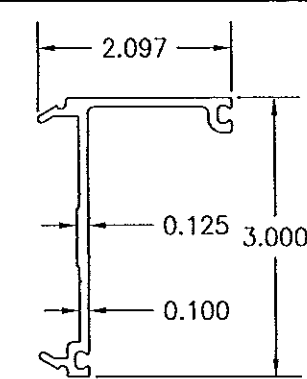
③ **SIDE OR INTERMEDIATE VERTICAL MEMBER (MALE HALF)**  
 $I = 14.133 \text{ IN}^4$   
 $S = 3.739 \text{ IN}^3$



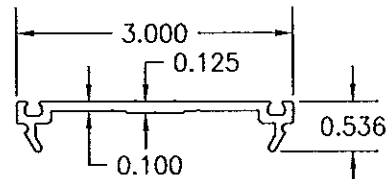
④ **SIDE OR INTERMEDIATE VERTICAL MEMBER (FEMALE HALF)**  
 $I = 10.378 \text{ IN}^4$   
 $S = 2.441 \text{ IN}^3$



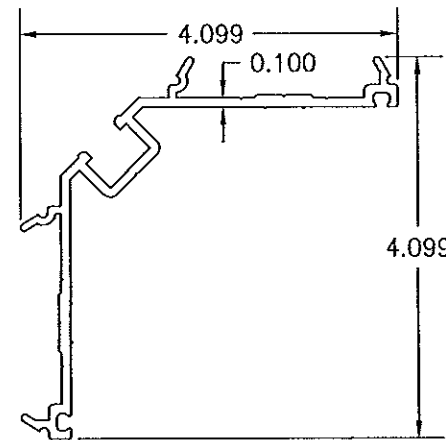
⑤ **CORNER MEMBER**  
 $I = 20.024 \text{ IN}^4$   
 $S = 4.399 \text{ IN}^3$



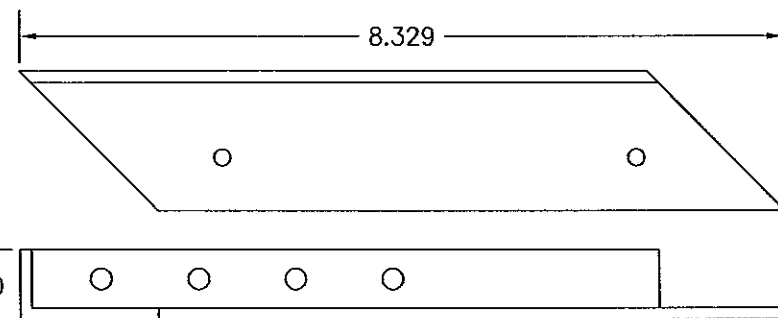
⑥ **PRESSURE PLATE (USED WITH HEAD, SILL OR SIDE MEMBERS)**



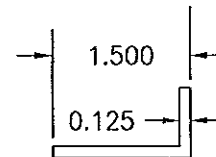
⑦ **PRESSURE PLATE (USED WITH INTERMEDIATE VERTICAL AND INTERMEDIATE HORIZONTAL MEMBERS)**



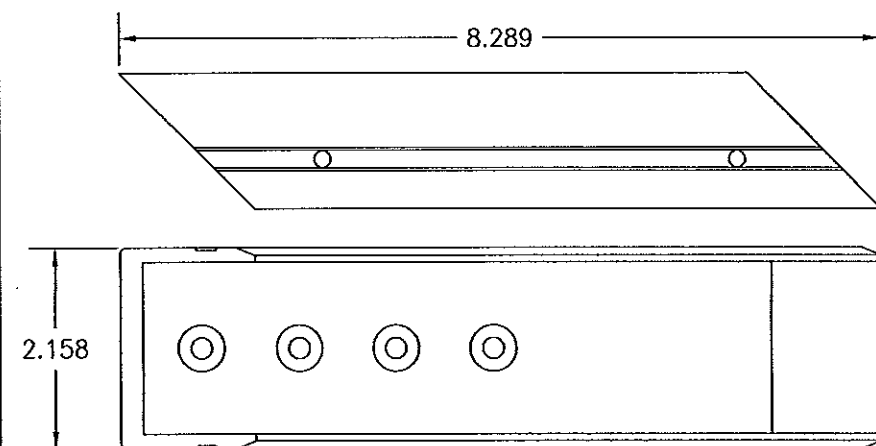
⑧ **PRESSURE PLATE (USED WITH CORNER MEMBER)**



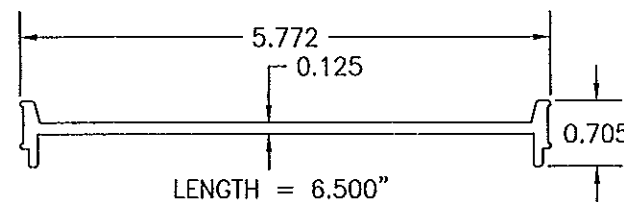
⑨ **SHEAR BLOCK (HEAD TO CORNER MEMBER)**



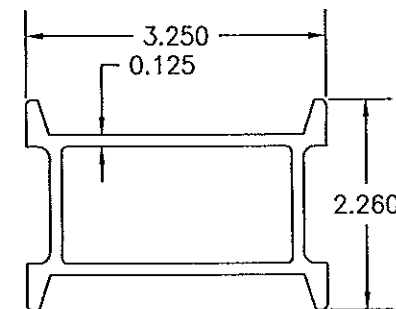
⑩ **SHEAR BLOCK (SILL TO CORNER MEMBER)**



⑪ **SHEAR BLOCK (INTERMEDIATE HORIZONTAL TO CORNER MEMBER)**



⑫ **SPLICE SLEEVE (USED WITH SIDE & INTERMEDIATE MEMBERS)**



⑬ **SPLICE SLEEVE (USED WITH CORNER MEMBER)**

Approved as complying with the  
 Florida Building Code  
 Date: 12/13/2013  
 NOA# 13-0422.12  
 Miami Dade Product Control  
 By: [Signature]



DRAWING BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 01/15/13	
NO.	REVISION	DESCRIPTION	DATE
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DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL

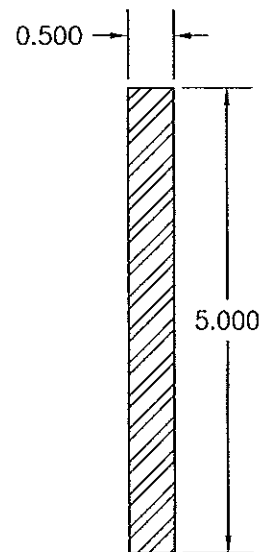
MANUFACTURER:  
 KAWNEER COMPANY, INC.  
 555 GUTHRIE COURT  
 NORCROSS, GA 30092  
 770-449-5555

CONSULTANTS:  
 W. W. SCHAEFER ENGINEERING  
 & CONSULTING, P.A. (CA 6809)  
 7480 150TH COURT NORTH  
 PALM BEACH GARDENS, FL 33418  
 PHONE: 561-744-3424

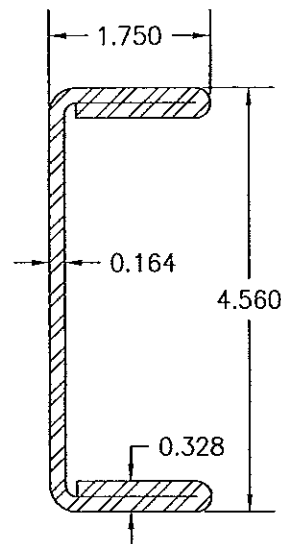
CERTIFICATION:  
 APR 02 2013  
 WARREN W. SCHAEFER, P.E.  
 P.E. NO. 44135

DRAWING NO. 1847  
 SHEET NO. 18 OF 21

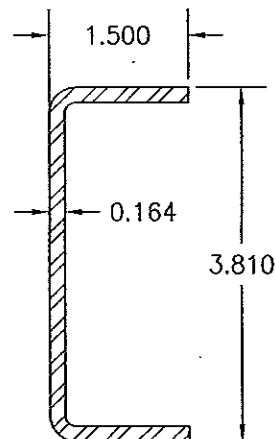




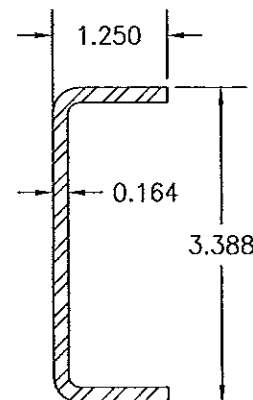
28) VERTICAL SIDE & INTERMEDIATE MEMBER REINFORCEMENT  
 $I = 5.208 \text{ IN}^4$   
 $S = 2.083 \text{ IN}^3$



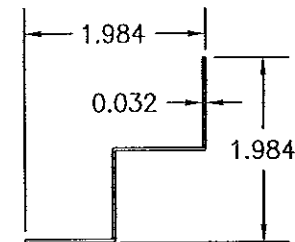
29) CORNER MEMBER REINFORCEMENT  
 $I = 5.543 \text{ IN}^4$   
 $S = 2.431 \text{ IN}^3$



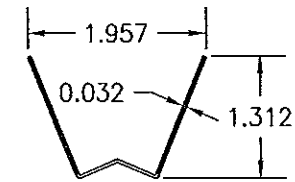
30) CORNER MEMBER REINFORCEMENT  
 $I = 2.111 \text{ IN}^4$   
 $S = 1.108 \text{ IN}^3$



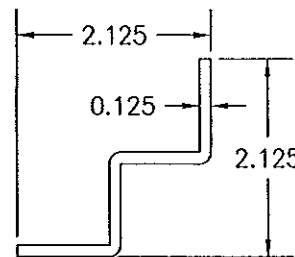
31) CORNER MEMBER REINFORCEMENT  
 $I = 1.378 \text{ IN}^4$   
 $S = 0.813 \text{ IN}^3$



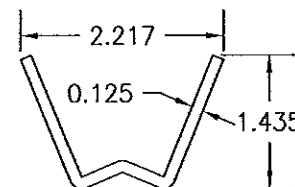
36A) SPLICE COVER (USED WITH FLASHED 90° CORNERS)



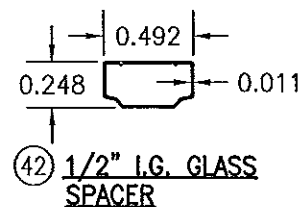
36B) SPLICE COVER (USED WITH FLASHED 135° CORNERS)



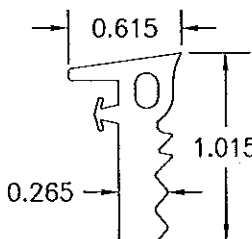
37A) SPLICE (USED WITH FLASHED 90° CORNERS)



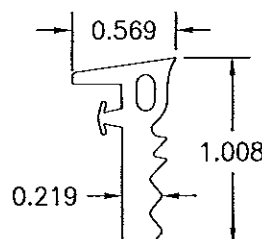
37B) SPLICE (USED WITH FLASHED 135° CORNERS)



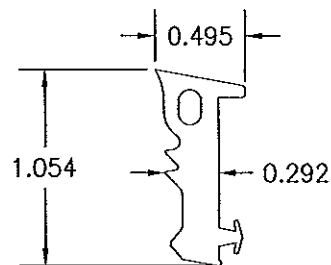
42) 1/2" I.G. GLASS SPACER



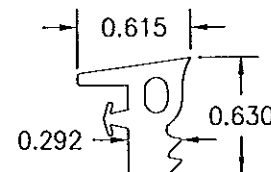
52A) EXTERIOR GLAZING GASKET (USED WITH STANDARD MEMBERS & GLASS OPTION 1)



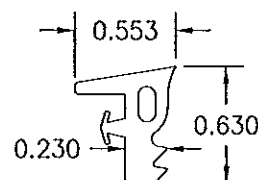
52B) EXTERIOR GLAZING GASKET (USED WITH STANDARD MEMBERS & GLASS OPTION 2)



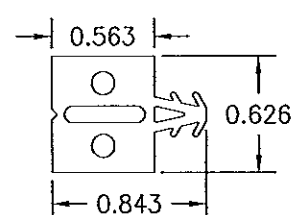
53) INTERIOR GLAZING GASKET (USED WITH STANDARD MEMBERS)



54A) GLAZING GASKET USED WITH CORNER MEMBERS AT THE INTERIOR & EXTERIOR WITH GLASS OPTION 1 AND AT THE INTERIOR ONLY WITH GLASS OPTION 2

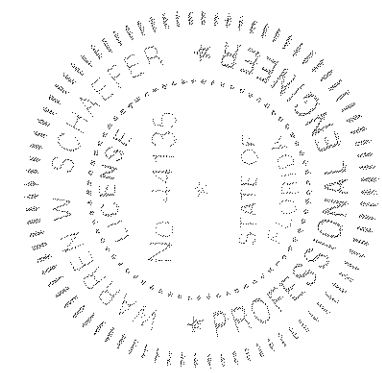


54B) GLAZING GASKET USED WITH CORNER MEMBERS AT THE EXTERIOR WITH GLASS OPTION 2



56) THERMAL SEPARATOR

Approved as complying with the  
 Florida Building Code  
 Date 08/01/2013  
 NOA# 13-0522-12  
 Miami Dade Product Control  
 By [Signature]



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 01/15/13	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 8 13/16" DEEP 1630-SS-IR DRY GLAZED LMI CURTAIN WALL			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KAWNEER COMPANY, INC.	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION			
APR 02 2013			
WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO.		REV.	
1847			
SHEET NO.			
20		21	

